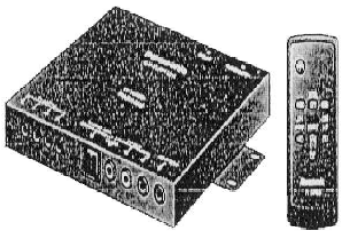
ORDER NO. ACED060118C3

# Service Manual

## AUTOMOTIVE AFTERMARKET

## CY-TUP133W / CY-TUN133W

### TV Tuner

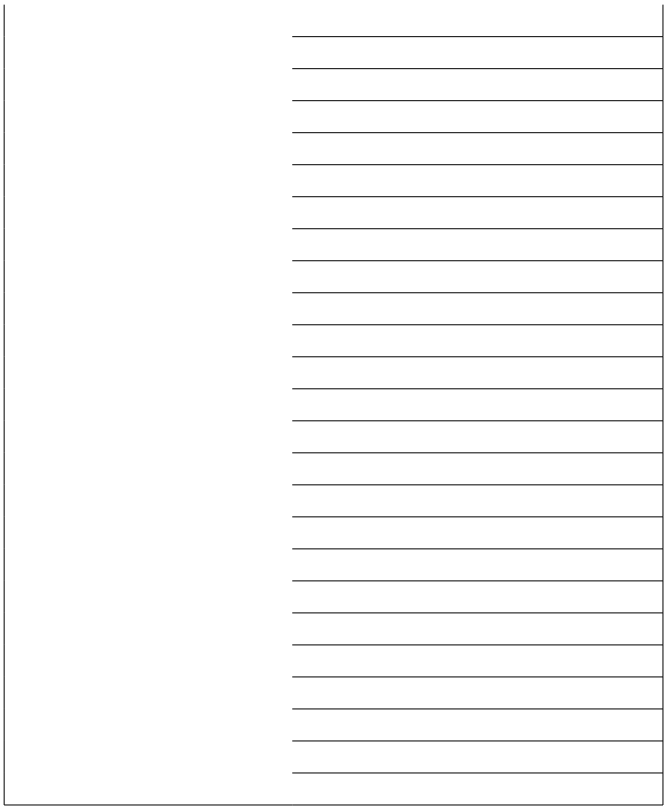


(CY-TUP133W)

## SPECIFICATIONS

**Specifications***

| | |
|---|---|
| **General** | |
| Power Supply | DC 12V (11V - 16V),<br>Test Voltage 14.4V<br>Negative Ground |
| Current Consumption | Less than 0.5A |
| Video Output Signal | Composite Video Signal, 1.0 |
| | Vp-p (75 ) |
| Audio Output Signal | 1 Vrms at 400 Hz |
| | (With 100% Modulation) |
| | |
| Dimensions (W×H×D)** | 156×22.5×150mm |
| Weight** | 650 g |
| | |
| TV Section | |
| Usable Sensitivity | 36 dB/ V |
| | |
| * Specifications and the design are subject to possible modification without notice due to improvements.<br>** Dimensions and Weight shown are approximate.<br>** Above specifications comply with EIA standards. | |



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**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# 1. ABOUT LEAD FREE SOLDER (PbF)

**Distinction of PbF PCB:**

**PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.**

**Caution :**

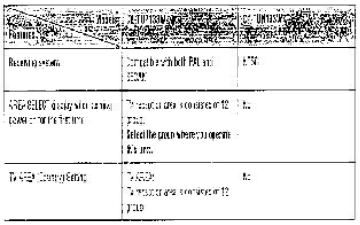
**- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 700 ± 20°F (370 ± 10°C). In case of using high temperature soldering iron, please be careful not to**

heat too long.

- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C)
- This lead free solder will be used for the products after serial No. 1,000,001.

# 2. FEATUERS

- Analog TV only
- Head Unit (The optional Head Unit: CQ-VD7003W, CQ-VD6503W, etc.)
- Expansion Module (The optional Hub unit: CY-EM100N)
- Compatible with both receiving systems PAL or SECAM (Only for CY-TUP133W)
- Receiving NTSC video system only (Only for CY-TUN133W)
- 4ch Diversity TV Antenna system
- 12 Preset channels for each bands
- This manual is for 2 models CY-TUP133W and CY-TUN133W. The following table describes the differences between 2 models.

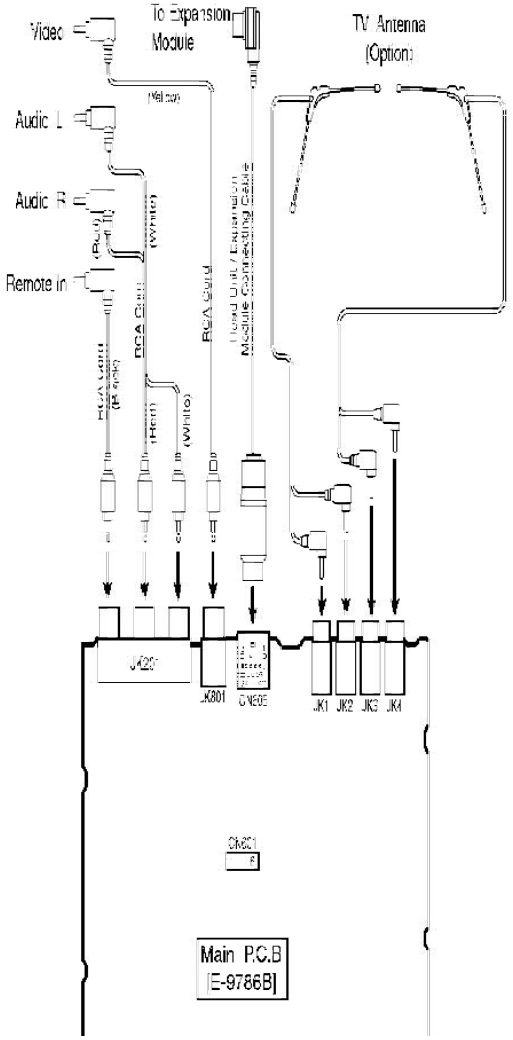


# 3. REPLACEING THE FUSE

**Use fuses of the same specified rating 3 amps. Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.**

# 4. DIMENSIONS

# 5. WIRING DIAGRAM




# 6. TERMINALS DESCRIPTION

**IC601 : C2BBYY000199**

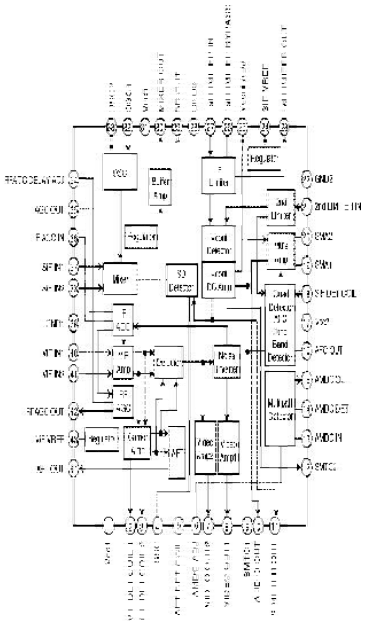
| PIN | Port | Description | I/O | (V) |
|---|---|---|---|---|
| 1 | NC | NC(GND connection) | I | 0 |
| 2 | ANT SEL1 | Diver antenna control output 1 | O | 0 |
| 3 | ANT SEL2 | Diver antenna control output 2 | O | 0 |
| 4 | ANT SEL3 | Diver antenna control output 3 | O | 0 |
| 5 | ANT SEL4 | Diver antenna control output 4 | O | 0 |
| 6 | DIVER CONT | Free orchis adjustment mode control terminal (TEST mode: H) | O | 0 |
| 7 | ACC SENS | Accessories detection | I | 5.1 |
| 8 | BATT SENS | Battery detection | I | 5.1 |
| 9 | NC | NC(GND connection) | I | 0 |
| 10 | RESET | System reset input terminal | I | 4.4 |
| 11 | NC | NC(GND connection) | I | 0 |
| 12 | SELF WRITE | Control terminal for | O | 0 |
| 13 | IC/FLMD0 | Terminal for internal connection and flash memory programming mode drawing in | - | 0 |
| 14 | X2 | MAIN system clock departure Nobuko connection | - | 2.7 |
| 15 | X1 | MAIN system clock departure Nobuko connection | I | 2.6 |
| 16 | REGC | Regulator output stability capacity connection | - | 2.6 |
| 17 | VSS | Grand potential for in | - | 0 |
| 18 | EVSS | Grand potential for external(the same potential as Vss) | - | 0 |
| 19 | VDD | Positive power supply supply terminal for in | - | 5.1 |
| 20 | EVDD | Positive power supply supply for external(the same potential as VDD) | - | 5.1 |
| 21 | NC | NC(GND connection) | I | 0 |
| 22 | NC | NC(GND connection) | I | 0 |
| 23 | NC | NC(GND connection) | I | 0 |
| 24 | TUNER PWR | TV TUNER POWER ON state output | O | 0 |

| PIN | Port | Description | I/O | (V) |
|---|---|---|---|---|
| 25 | NC | NC(GND connection) | I | 0 |
| 26 | NC | NC(GND connection) | I | 0 |
| 27 | NC | NC(GND connection) | I | 0 |
| 28 | NC | NC(GND connection) | I | 0 |
| 29 | NC | NC(GND connection) | I | 0 |
| 30 | NC | NC(GND connection) | I | 0 |
| 31 | NC | NC(GND connection) | I | 0 |
| 32 | SYS PWR | System power supply control output | O | 5.1 |
| 33 | MAIN PWR | The main power supply control output | O | 5.1 |
| 34 | SYS MUTE | System mute signal output | O | 0 |
| 35 | SIDE BRAKE | Parking brake detection | I | 5.1 |
| 36 | NC | NC(GND connection) | I | 0 |
| 37 | NC | NC(GND connection) | I | 0 |
| 38 | REMO DATA | External remote control signal input | I | 5.2 |
| 39 | REMO JDG | External remote control signal input detection | I | 5.2 |
| 40 | TV MUTE | Image mute signal output (L: Image mute release) | O | 5.1 |
| 41 | INIT DET1 | Inducing detection 1 | I | 0 |
| 42 | INIT DET2 | Inducing detection 2 | I | 0 |
| 43 | INIT DET3 | Inducing detection 3 (TUP) | I | 5.2 |
| 43 | INIT DET3 | Inducing detection 3 (TUN) | I | 0 |
| 44 | NC | NC(GND connection) | I | 0 |
| 45 | NC | NC(GND connection) | I | 0 |
| 46 | NC | NC(GND connection) | I | 0 |
| 47 | NC | NC(GND connection) | I | 0 |
| 48 | NC | NC(GND connection) | I | 0 |
| 49 | NC | NC(GND connection) | I | 0 |
| 50 | RX | Terminal for Flash rewriting | O | 0 |
| 51 | TX | Terminal for Flash rewriting | I | 0 |
| 52 | OSD DATA | OSD DATA output | O | 4.3 |
| 53 | NC | NC(GND connection) | I | 0 |
| 54 | OSD CLK | OSD CLK output | O | 4.9 |
| 55 | OSD CS | OSD CS control | O | 3.7 |
| 56 | OSD RESET | OSD RESET output (L: RESET ON) | O | 5.1 |
| 57 | SYNC JDG | OSDC synchronous signal detection (H: Signal detection) | I | 5.1 |

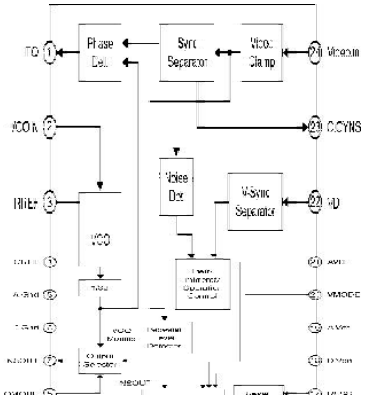
| PIN | Port | Description | I/O | (V) |
|---|---|---|---|---|
| 58 | BG/DK/I | BG/DK/I switch control output (NTSC: L) | O | 0 |
| 59 | AVREF | Standard voltage input 0 of A/D converter | - | 5.1 |
| 60 | AVSS | A/D converter grand potential | - | 0 |
| 61 | TV VCONT | TV electrolysis strength input | I | 1.8 |
| 62 | TV SD | There is a TV bureau and it detects it. | I | 0 |
| 63 | NC | NC(GND connection) | I | 0 |
| 64 | NC | NC(GND connection) | I | 0 |
| 65 | NC | NC(GND connection) | I | 0 |
| 66 | NC | NC(GND connection) | I | 0 |
| 67 | NC | NC(GND connection) | I | 0 |
| 68 | TUNER LOCK | TV tuner packing front end LOCK detection | I | 0.2 |
| 69 | TUNER EN | TV tuner packing front end ENABLE output | O | 0 |
| 70 | TUNER CLK | TV tuner packing front end clock output | O | 0 |
| 71 | NC | NC(GND connection) | I | 0 |
| 72 | TUNER DATA | TV tuner packing front end data output | O | 0 |
| 73 | NC | NC(GND connection) | I | 0 |
| 74 | NC | NC(GND connection) | I | 0 |
| 75 | NC | NC(GND connection) | I | 0 |
| 76 | NC | NC(GND connection) | I | 0 |
| 77 | NC | NC(GND connection) | I | 0 |
| 78 | NC | NC(GND connection) | I | 0 |
| 79 | NC | NC(GND connection) | I | 0 |
| 80 | NC | NC(GND connection) | I | 0 |

# 7. IC BLOCK DIAGRAM

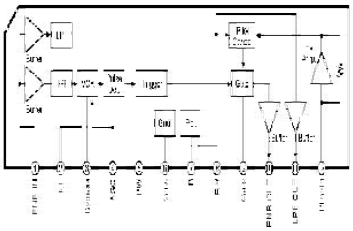
**IC1 : AN5186FB-V**



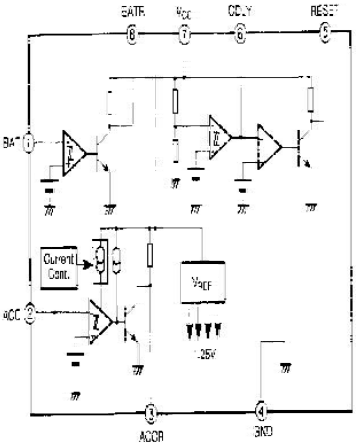
**IC9 : C1EB00000101**



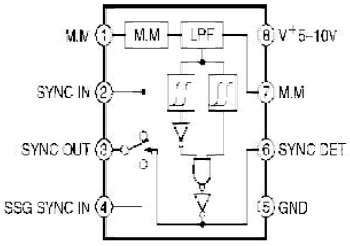

**IC12 : C1AA00000751**



**IC602 : AN8065S-EIV**

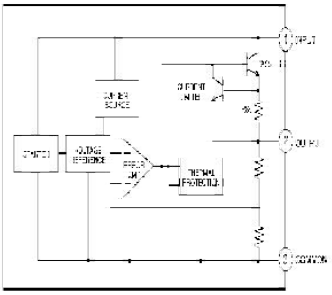



**IC651 : C1AB00000393**

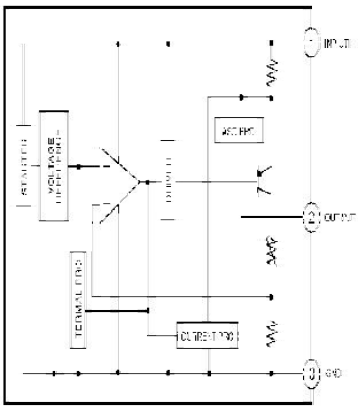



**IC652 : C0JBAA000344**

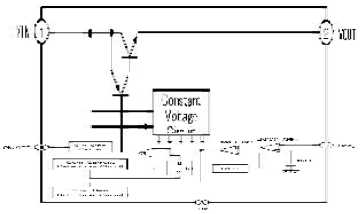
**IC705 : C0CBADC00084**



**IC721 : C0CBACG00005**

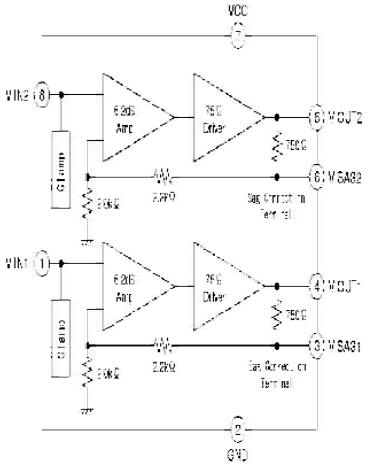


**IC731: C0DBAJG00002**

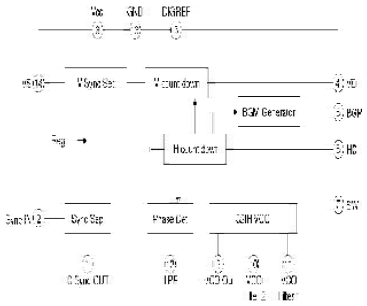



**IC801 : C5ZBZ0000019**

**IC802 : C1AB00000163**



**IC803 : C1AB00001852**



# 8. REPLACEMENT PARTS LIST (CY-TUP133W)

**Notes :**

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Important safety notice: Components, identified by mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.**
3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

   **- Order intake period is basically six months after the first shipment.**

5. **“T” marks in remarks colum are indicated supply parts of PTW.**

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| [E9786B] Main Block | | | |
| IC's AND TRANSISTORs | | | |
| IC1 | AN5186FB-V | IC | T |
| IC9 | C1EB00000101 | IC | T |
| IC10 | C1AA00000668 | IC | T |
| IC12 | C1AA00000751 | IC | T |
| IC201 | C0ABBA000063 | IC | T |
| IC601 | C2BBYY000199 | IC | T |
| IC602 | AN8065S-E1V | IC | T |
| IC651 | C1AB00000393 | IC | T |
| IC652 | C0JBAA000344 | IC | T |
| IC705 | C0CBADC00084 | IC | T |
| IC721 | C0CBACG00005 | IC | T |
| IC731 | C0DBAJG00002 | IC | T |
| IC801 | C5ZBZ0000019 | IC | T |
| IC802 | C1AB00000163 | IC | T |
| IC803 | C1AB00001852 | IC | T |
| PAC1 | J3AAAAZ00009 | Tuner | T |
| Q1 | B1GDCFJJ0002 | Transistor | T |
| Q2 | B1GDCFJJ0002 | Transistor | T |
| Q3 | B1GDCFJJ0002 | Transistor | T |
| Q4 | B1GDCFJJ0002 | Transistor | T |
| Q5 | B1ABBD000002 | Transistor | T |
| Q6 | 2SC4626J0L | Transistor | T |
| Q7 | B1GBCFJJ0002 | Transistor | T |
| Q8 | 2SD0601AHR | Transistor | T |
| Q17 | B1GBCFJJ0002 | Transistor | T |
| Q201 | B1GDCFLL0010 | Transistor | T |
| Q202 | B1GDCFNN0002 | Transistor | T |
| Q204 | XN0F26100L | Transistor | T |
| Q601 | B1GDCFNN0002 | Transistor | T |
| Q751 | B1BDEL000001 | Transistor | T |
| Q752 | B1GDJCEJ0002 | Transistor | T |
| Q761 | B1BBAC000007 | Transistor | T |
| Q801 | B1ABCF000052 | Transistor | T |
| Q802 | 2SB0709AWL | Transistor | T |
| Q803 | 2SD0601AHR | Transistor | T |
| Q804 | 2SB0709AWL | Transistor | T |
| Q805 | 2SD0601AHR | Transistor | T |
| Q806 | 2SD0601AHR | Transistor | T |
| Q807 | B1GBHBEA0004 | Transistor | T |
| Q808 | B1GDCFNN0002 | Transistor | T |
| Q809 | B1GBCFNN0004 | Transistor | T |
| | | | |
| | | | |
| DIODEs | | | |
| D2 | B0DCBF000003 | Diode | T |
| D3 | B0DCBF000003 | Diode | T |
| D4 | B0DCBF000003 | Diode | T |
| D5 | B0DCBF000003 | Diode | T |
| D6 | MA3X028TAL | Diode | T |
| D7 | MA3X152E0L | Diode | T |
| D12 | B0JCRC000002 | Diode | T |
| D16 | B0ECKL000001 | Diode | T |
| D201 | B0ADCJ000007 | Diode | T |
| D203 | B0ADCJ000020 | Diode | T |
| D601 | B0ACCK000005 | Diode | T |

| | | | |
|---|---|---|---|
| [redacted] | [redacted] | [redacted] | [redacted] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| D602 | B0ACCK000005 | Diode | T |
| D603 | B0ADCJ000007 | Diode | T |
| D604 | B0ACCK000005 | Diode | T |
| D615 | MAZ80510ML | Diode | T |
| D721 | B0ECKL000001 | Diode | T |
| D731 | B0JCQD000002 | Diode | T |
| D761 | B0BC5R700008 | Diode | T |
| D762 | B0ECKL000001 | Diode | T |
| D763 | B0ECKP000002 | Diode | T |
| D764 | B0ACCK000005 | Diode | T |
| D771 | B0BA04700003 | Diode | T |
| D801 | B0ACCK000005 | Diode | T |
| D803 | B0BC5R700008 | Diode | T |
| | | | |
| | | | |
| CAPACITORs | | | |
| C1 | F1J1H470A732 | Ceramic, 47PF 50WV | T |
| C2 | F1J1H470A732 | Ceramic, 47PF 50WV | T |
| C3 | F1J1H470A732 | Ceramic, 47PF 50WV | T |
| C4 | F1J1H470A732 | Ceramic, 47PF 50WV | T |
| C5 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C6 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C7 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C8 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C9 | F1J1H151A785 | Ceramic, 150PF 50WV | T |
| C10 | F1J1H151A785 | Ceramic, 150PF 50WV | T |
| C11 | F1J1H151A785 | Ceramic, 150PF 50WV | T |
| C12 | F1J1H151A785 | Ceramic, 150PF 50WV | T |
| C13 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C14 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C15 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C16 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C17 | F1J1C104A148 | Ceramic, 0.1 F 16WV | T |
| C18 | ECA1CM100I | Electrolytic, 10 F 16WV | T |
| C19 | F1J2A103A027 | Ceramic, 0.01 F 100WV | T |
| C20 | F1J1C105A173 | Ceramic, 1 F 16WV | T |
| C21 | F1J1H222A733 | Ceramic, 2200PF 50WV | T |
| C22 | F1H1C473A071 | Ceramic, 0.047 F 16WV | T |
| C23 | F1H1E223A011 | Ceramic, 0.022 F 25WV | T |
| C24 | F1J1H150A732 | Ceramic, 10PF 50WV | T |
| C25 | F1J1H150A732 | Ceramic, 10PF 50WV | T |
| C26 | F1H1H222A842 | Ceramic, 2200PF 50WV | T |
| C27 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C28 | F1H1H222A842 | Ceramic, 2200PF 50WV | T |
| C29 | F1J1A2250004 | Ceramic, 2.2 F 10WV | T |
| C30 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C31 | F1H1H220A860 | Ceramic, 220PF 50WV | T |
| C32 | F1J1C105A173 | Ceramic, 1 F 16WV | T |
| C33 | F1H1E102A034 | Ceramic, 1000PF 25WV | T |
| C34 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C36 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C37 | F1J1C104A148 | Ceramic, 0.1 F 16WV | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C38 | ECA1AM101I | Electrolytic, 100 μ F 10WV | T |
| C39 | F1J1H181A732 | Ceramic, 180PF 50WV | T |
| C40 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C41 | F1J1C104A148 | Ceramic, 0.1 μ F 16WV | T |
| C42 | F1H1E223A011 | Ceramic, 0022 μ F 25WV | T |
| C43 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C44 | ECA1HM2R2I | Electrolytic, 2.2 μ F 50WV | T |
| C45 | F1J1C104A148 | Ceramic, 0.1 μ F 16WV | T |
| C46 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C47 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C48 | ECA1CM220I | Electrolytic, 22 μ F 16WV | T |
| C50 | F1H1C473A071 | Ceramic, 0.047 μ F 16WV | T |
| C51 | F1H1E123A086 | Ceramic, 0.012 μ F 25WV | T |
| C52 | F1H1E223A011 | Ceramic, 0.022 μ F 25WV | T |
| C53 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C54 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C55 | F1H1H222A842 | Ceramic, 2200PF 50WV | T |
| C56 | F1J2A103A027 | Ceramic, 0.01 μ F 100WV | T |
| C57 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C58 | F1J1C104A148 | Ceramic, 0.1 μ F 16WV | T |
| C59 | F1H1E223A011 | Ceramic, 0022 μ F 25WV | T |
| C61 | F1J1H222A733 | Ceramic, 2200PF 50WV | T |
| C94 | F1H0J1050010 | Ceramic, 1 μ F 6.3WV | T |
| C95 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C96 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C97 | F1J2A103A027 | Ceramic, 0.01 F 100WV | T |
| C98 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C99 | ECA0JM101I | Electrolytic, 100 F 6.3WV | T |
| C100 | F1H1H332A748 | Ceramic, 3300PF 50WV | T |
| C102 | F1J1H220A732 | Ceramic, 22PF 50WV | T |
| C107 | F1H1H152A842 | Ceramic, 1500PF 50WV | T |
| C108 | F1J1H330A732 | Ceramic, 33PF 50WV | T |
| C110 | F1J1A2250004 | Ceramic, 2.2 F 10WV | T |
| C111 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C120 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C121 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C122 | F1H1H102A190 | Ceramic, 1000PF 50WV | T |
| C123 | F1H1E123A086 | Ceramic, 0.012 F 25WV | T |
| C124 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C125 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C126 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C127 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C128 | ECA0JM101I | Electrolytic, 100 F 6.3WV | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C162 | F1J0J4750003 | Ceramic, 4.7 μ F 6.3WV | T |
| C201 | ECEA1HKA010I | Electrolytic, 1 μ F 50WV | T |
| C202 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C204 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C205 | ECEA1HKA010I | Electrolytic, 1 μ F 50WV | T |
| C206 | F1J1H560A788 | Ceramic, 56PF 50WV | T |
| C207 | ECA1AM221I | Electrolytic, 220 μ F 10WV | T |
| C208 | F1J1C105A173 | Ceramic, 1 μ F 16WV | T |
| C209 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C305 | ECEA1HKA010I | Electrolytic, 1 μ F 50WV | T |
| C306 | F1J1H560A788 | Ceramic, 56 μ F 50WV | T |
| C309 | ECA1CM100I | Electrolytic, 10 μ F 50WV | T |
| C601 | ECA0JM101I | Electrolytic, 100 μ F 6.3WV | T |
| C602 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C603 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C604 | ECA0JM221I | Electrolytic, 220 μ F 6.3WV | T |
| C605 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C606 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C607 | ECA0JM221I | Electrolytic, 220 μ F 6.3WV | T |
| C608 | F1H1A474A046 | Ceramic, 0.47 μ F 10WV | T |
| C609 | F1H1A224A046 | Ceramic, 0.22 μ F 10WV | T |
| C610 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C612 | ECA0JM221I | Electrolytic, 220 μ F 6.3WV | T |
| C613 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C614 | ECA0JM221I | Electrolytic, 220 F 6.3WV | T |
| C615 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C651 | F1H1E102A034 | Ceramic, 1000PF 25WV | T |
| C652 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C653 | F1J0J4750003 | Ceramic, 4.7 F 6.3WV | T |
| C654 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C655 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C721 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C722 | F2A1A181A835 | Electrolytic, 180 F 10WV | T |
| C723 | F2A1A181A835 | Electrolytic, 180 F 10WV | T |
| C724 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C732 | F1K1E475A099 | Ceramic, 4.7 F 16WV | T |
| C733 | F1H1H471A842 | Ceramic, 470PF 50WV | T |
| C734 | F1H1H222A842 | Ceramic, 2200PF 50WV | T |
| C735 | F1K1E475A099 | Ceramic, 4.7 F 16WV | T |
| C736 | F2H1C331A023 | Electrolytic, 330 F 16WV | T |
| C737 | F2H1C331A023 | Electrolytic, 330 F 16WV | T |
| C741 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C743 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C744 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C745 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C761 | F1H1C104A107 | Ceramic, 0.01 μ F 16WV | T |
| C762 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C763 | F2A1C101A029 | Electrolytic, 100 μ F 16WV | T |
| C773 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C774 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C779 | F1J1C105A173 | Ceramic, 0.1 μ F 16WV | T |
| C801 | F1J2A103A027 | Ceramic, 0.01 μ F 100WV | T |
| C802 | ECA0JM101I | Electrolytic, 100 μ F 6.3WV | T |
| C803 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C804 | F1H1H270A841 | Ceramic, 27PF 50WV | T |
| C805 | F1H1H270A841 | Ceramic, 27PF 50WV | T |
| C806 | F1H1H3R0A839 | Ceramic, 3PF 50WV | T |
| C807 | F1J1H120A732 | Ceramic, 12PF 50WV | T |
| C808 | F1J1H120A732 | Ceramic, 12PF 50WV | T |
| C809 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C810 | ECA0JM101I | Electrolytic, 100 μ F 6.3WV | T |
| C811 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C812 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C813 | F1H0J1050010 | Ceramic, 1 μ F 6.3WV | T |
| C814 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C815 | F1J0J4750003 | Ceramic, 4.7 μ F 6.3WV | T |
| C817 | ECA0JM471I | Electrolytic, 470 μ F 6.3WV | T |
| C818 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C820 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C821 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C822 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C823 | ECA1CM220I | Electrolytic, 22 F 16WV | T |
| C824 | F1J0J4750003 | Ceramic, 4.7 F 6.3WV | T |
| C825 | F1J0J4750003 | Ceramic, 4.7 F 6.3WV | T |
| C826 | ECA1CM220I | Electrolytic, 22 F 16WV | T |
| C827 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C828 | F1K0J1060017 | Ceramic, 10 F 6.3WV | T |
| C829 | F1H0J1050010 | Ceramic, 1 F 6.3WV | T |
| C830 | F1H1H331A900 | Ceramic, 330PF 50WV | T |
| C831 | F1H0J1050010 | Ceramic, 1 F 6.3WV | T |
| C832 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C833 | F1H1E102A034 | Ceramic, 1000PF 25WV | T |
| C834 | F1H1H181A842 | Ceramic, 180PF 50WV | T |
| C835 | F1H1H153A842 | Ceramic, 0.01 F 25WV | T |
| C836 | F1J0J4750003 | Ceramic, 4.7 F 6.3WV | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C837 | F1H0J1050010 | Ceramic, 1 μF 6.3WV | T |
| C840 | F1H1H560A841 | Ceramic, 56PF 50WV | T |
| C841 | F1H1H103A842 | Ceramic, 0.01 μF 50WV | T |
| C842 | F1H1H103A842 | Ceramic, 0.01 μF 50WV | T |
| C843 | ECA0JM221I | Electrolytic, 220 μF 6.3WV | T |
| C844 | F1J1C104A148 | Ceramic, 0.1 μF 16WV | T |
| C845 | F1J1C104A148 | Ceramic, 0.1 μF 16WV | T |
| C846 | ECA0JM221I | Electrolytic, 220 μF 6.3WV | T |
| C847 | ECA0JM221I | Electrolytic, 220 μF 6.3WV | T |
| C848 | F1H1H103A842 | Ceramic, 0.01 μF 50WV | T |
| | | | |
| | | | |
| RESISTORs | | | |
| R1 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R2 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R3 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R4 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R6 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R7 | D0GD103JA017 | Chip, 10k Ω 1/8W | T |
| R8 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R9 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R10 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R11 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R12 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R13 | D0GD222JA017 | Chip, 2.2k Ω 1/8W | T |
| R14 | D0GD103JA017 | Chip, 10k Ω 1/8W | T |
| R15 | D0GD331JA017 | Chip, 330 1/8W | T |
| R16 | D0GD330JA017 | Chip, 33 1/8W | T |
| R17 | D0GD151JA017 | Chip, 150 1/8W | T |
| R18 | D0GB561JA008 | Chip, 560 1/10W | T |
| R19 | D0GB392JA008 | Chip, 3.9k 1/10W | T |
| R20 | D0GB330JA008 | Chip, 33 1/10W | T |
| R21 | D0GB181JA008 | Chip, 180 1/10W | T |
| R22 | D0GB272JA008 | Chip, 2.7k 1/10W | T |
| R23 | D0GD472JA017 | Chip, 4.7k 1/8W | T |
| R24 | D0GB101JA008 | Chip, 100 1/10W | T |
| R25 | D0GB331JA008 | Chip, 330 1/10W | T |
| R26 | D0GB823JA008 | Chip, 82k 1/10W | T |
| R27 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R28 | D0GD181JA017 | Chip, 180 1/8W | T |
| R29 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R30 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R31 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R32 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R33 | D0GB471JA008 | Chip, 470 1/10W | T |
| R34 | D0GB392JA008 | Chip, 3.9k 1/10W | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R35 | D0GB432JA008 | Chip, 4.3k Ω 1/10W | T |
| R36 | D0GD392JA017 | Chip, 3.9 Ω 1/8W | T |
| R37 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R38 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R39 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R40 | D0GBR00JA008 | Chip, 0 Ω 1/10W | T |
| R41 | ERJ3RBD151V | Chip, 150 Ω 1/16W | T |
| R42 | ERJ3RBD181V | Chip, 180 Ω 1/16W | T |
| R43 | D0GB472JA008 | Chip, 4.7k Ω 1/10W | T |
| R44 | D0GBR00JA008 | Chip, 0 Ω 1/10W | T |
| R45 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R46 | D0GB393JA008 | Chip, 39k Ω 1/10W | T |
| R47 | D0GB103JA008 | Chip, 10k Ω 1/10W | T |
| R48 | D0GB272JA008 | Chip, 2.7k Ω 1/10W | T |
| R49 | D0GD333JA017 | Chip, 33k Ω 1/8W | T |
| R50 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R51 | D0GD101JA017 | Chip, 100 Ω 1/8W | T |
| R52 | D0GD563JA017 | Chip, 56k Ω 1/8W | T |
| R53 | D0GB473JA008 | Chip, 47k Ω 1/10W | T |
| R54 | D0GB563JA008 | Chip, 56k Ω 1/10W | T |
| R55 | D0GB472JA008 | Chip, 4.7k Ω 1/10W | T |
| R56 | D0GB272JA008 | Chip, 2.7k Ω 1/10W | T |
| R58 | D0GB562JA008 | Chip, 5.6 Ω 1/10W | T |
| R59 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R100 | D0GB223JA008 | Chip, 22k Ω 1/10W | T |
| R101 | D0GB333JA008 | Chip, 33k Ω 1/10W | T |
| R102 | D0GB123JA008 | Chip, 12k Ω 1/10W | T |
| R103 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R104 | D0GB473JA008 | Chip, 47k 1/10W | T |
| R106 | D0GB101JA008 | Chip, 100k 1/10W | T |
| R107 | D0GD472JA017 | Chip, 4.7k 1/8W | T |
| R108 | D0GD472JA017 | Chip, 4.7k 1/8W | T |
| R110 | D0GD202JA017 | Chip, 2k 1/8W | T |
| R114 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R115 | D0GB222JA008 | Chip, 2.2k 1/10W | T |
| R116 | D0GD272JA017 | Chip, 2.7k 1/8W | T |
| R117 | D0GBR00JA008 | Chip, 0 1/10W | T |
| R148 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R168 | D0GBR00JA008 | Chip, 0 1/10W | T |
| R201 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R202 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R209 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R210 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R213 | D0GD104JA017 | Chip, 100k 1/8W | T |
| R214 | D0GD562JA017 | Chip, 5.6k 1/8W | T |
| R215 | D0GB273JA008 | Chip, 27k 1/10W | T |
| R216 | D0GD561JA017 | Chip, 560 1/8W | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R217 | D0GD473JA017 | Chip, 47k Ω 1/8W | T |
| R313 | D0GD104JA017 | Chip, 100k Ω 1/8W | T |
| R314 | D0GD562JA017 | Chip, 5.6k Ω 1/8W | T |
| R315 | D0GB273JA008 | Chip, 27k Ω 1/10W | T |
| R316 | D0GD561JA017 | Chip, 560 Ω 1/8W | T |
| R317 | D0GD473JA017 | Chip, 47k Ω 1/8W | T |
| R600 | D0GD473JA017 | Chip, 47k Ω 1/8W | T |
| R601 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R602 | D0GD101JA017 | Chip, 100 Ω 1/8W | T |
| R603 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R604 | D0GB473JA008 | Chip, 47k Ω 1/10W | T |
| R605 | D0GB473JA008 | Chip, 47k Ω 1/10W | T |
| R608 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R609 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R610 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R611 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R612 | D0GD101JA017 | Chip, 100 Ω 1/8W | T |
| R613 | D0GB103JA008 | Chip, 10k Ω 1/10W | T |
| R614 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R615 | D1BB2703A012 | 270k Ω 1/10W | T |
| R616 | D1BB1503A056 | 150k Ω 1/16W | T |
| R617 | D1BB3902A012 | 39k Ω 1/10W | T |
| R618 | ERJ3RBD433V | Chip, 43k Ω 1/16W | T |
| R619 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R622 | D0GD331JA017 | Chip, 330 Ω 1/8W | T |
| R623 | D0GB103JA008 | Chip, 10k Ω 1/10W | T |
| R624 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R625 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R626 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R652 | D0GBR00JA008 | Chip, 0k 1/10W | T |
| R654 | D0GB473JA008 | Chip, 47k 1/10W | T |
| R721 | D0GN2R7JA005 | Chip, 2.7k 1/2W | T |
| R731 | D1BD1201A030 | 1.2k 1/8W | T |
| R732 | D1BB7501A012 | 7.5k 1/10W | T |
| R741 | D0GDR00JA017 | Chip, 0 1/8W | T |
| R743 | D0YFR00J0001 | Chip, 0 1/8W | T |
| R744 | D0YFR00J0001 | Chip, 0 1/8W | T |
| R745 | D0GG150JA012 | Chip, 15 1/4W | T |
| R751 | D0GB473JA008 | Chip, 47k 1/10W | T |
| R752 | D0GN102JA005 | Chip, 1k 1/2W | T |
| R753 | D0GN102JA005 | Chip, 1k 1/2W | T |
| R754 | D0GN102JA005 | Chip, 1k 1/2W | T |
| R759 | D0YFR00J0001 | Chip, 0 1/8W | T |
| R760 | D0YFR00J0001 | Chip, 0 1/8W | T |
| R761 | D0GG100JA012 | Chip, 10 1/4W | T |
| R762 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R763 | D0GD102JA017 | Chip, 1k 1/8W | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R764 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R767 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R768 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R769 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R770 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R773 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R774 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R775 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R776 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R777 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R778 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R780 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R781 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R782 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R783 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R784 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R785 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R786 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R787 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R802 | D0GD223JA017 | Chip, 22k Ω 1/8W | T |
| R803 | D0GD223JA017 | Chip, 22k Ω 1/8W | T |
| R804 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R805 | D0GB101JA008 | Chip, 100k Ω 1/10W | T |
| R806 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R807 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R808 | D0GB912JA008 | Chip, 9.1k Ω 1/10W | T |
| R809 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R810 | D0GB221JA008 | Chip, 220 1/10W | T |
| R811 | D0GB221JA008 | Chip, 220 1/10W | T |
| R812 | D0GB221JA008 | Chip, 220 1/10W | T |
| R813 | D0GB104JA008 | Chip, 100k 1/10W | T |
| R814 | D1BB8201A012 | 8.2k 1/10W | T |
| R815 | D1BB1002A012 | 10k 1/10W | T |
| R816 | D1BB2201A012 | 2.2k 1/10W | T |
| R817 | D0GB222JA008 | Chip, 2.2k 1/10W | T |
| R818 | D0GB101JA008 | Chip, 100 1/10W | T |
| R819 | D0GD391JA017 | Chip, 390 1/8W | T |
| R820 | D0GD391JA017 | Chip, 390 1/8W | T |
| R821 | D0GD680JA017 | Chip, 68 1/8W | T |
| R822 | D0GB100JA008 | 10 1/10W | T |
| R824 | D0GBR00JA008 | Chip, 0 1/10W | T |
| R825 | ERJ3RBD361V | Chip, 360 1/16W | T |
| R826 | D0GB202JA008 | Chip, 2k 1/10W | T |
| R827 | D0GB302JA008 | Chip, 3k 1/10W | T |
| R828 | D0GB914JA008 | Chip, 910k 1/10W | T |
| R829 | D0GD914JA017 | Chip, 910k 1/8W | T |
| R830 | D0GD102JA017 | Chip, 1k 1/8W | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R831 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R832 | D0GBR00JA008 | Chip, 0 Ω 1/10W | T |
| R834 | D0GB331JA008 | Chip, 330 Ω 1/10W | T |
| R835 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R836 | D0GB273JA008 | Chip, 27k Ω 1/10W | T |
| R837 | D0GB333JA008 | Chip, 33k Ω 1/10W | T |
| R838 | D0GB331JA008 | Chip, 330 Ω 1/10W | T |
| R839 | D0GB331JA008 | Chip, 330 Ω 1/10W | T |
| R841 | D0GD914JA017 | Chip, 910k Ω 1/8W | T |
| R855 | D0GD222JA017 | Chip, 2.2k Ω 1/8W | T |
| R856 | D0GD221JA017 | Chip, 220 Ω 1/8W | T |
| R857 | D0GD221JA017 | Chip, 220 Ω 1/8W | T |
| R858 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R859 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R860 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R861 | D0GN102JA005 | Chip, 1k Ω 1/2W | T |
| R863 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R864 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R865 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R866 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R867 | D0GB513JA008 | Chip, 51k Ω 1/10W | T |
| R868 | D0GB513JA008 | Chip, 51k Ω 1/10W | T |
| R869 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
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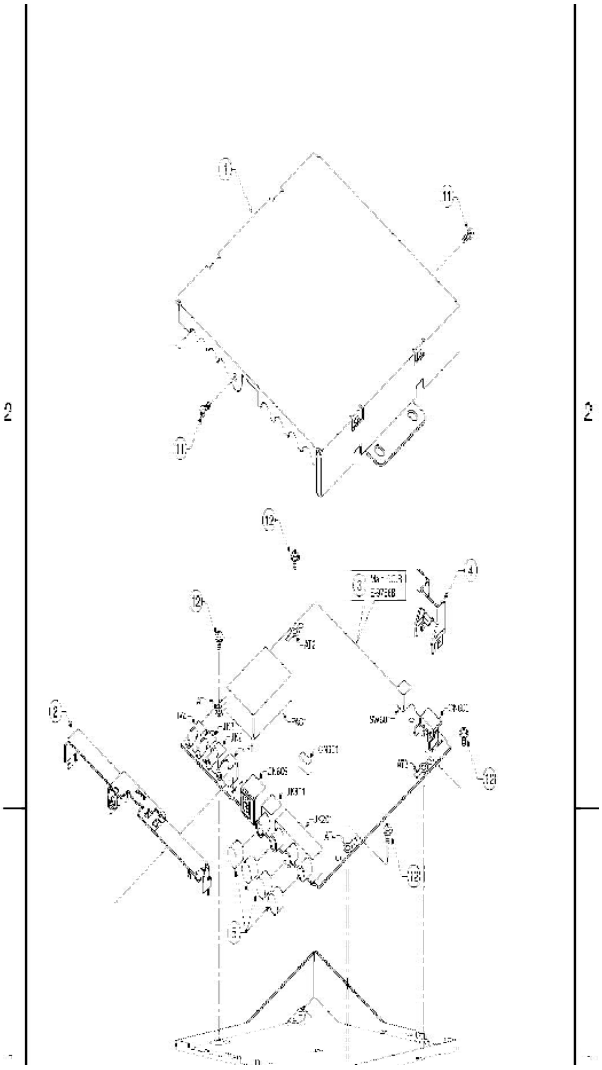
| | | | |
| CONNECTORs | | | |
| CN601 | K1KA06AA0231 | Connector, 6P | T |
| CN605 | K1AB113B0002 | Connector, 13P | T |
| CN606 | K1KA04B00270 | Connector, 4P | T |
| | | | |
| | | | |
| COILs | | | |
| FL6 | ELJFCR68MF | Coil | T |
| L2 | ELJFCR27MF | Coil | T |
| L3 | ELJFCR27MF | Coil | T |
| L4 | ELJFCR27MF | Coil | T |
| L5 | ELJFCR27MF | Coil | T |
| L6 | G1CR22JA0036 | Coil | T |
| L7 | G1C100JA0036 | Coil | T |
| L8 | G1C1R8JA0036 | Coil | T |
| L9 | G1C2R7JA0036 | Coil | T |
| L10 | G1C2R2JA0036 | Coil | T |
| L11 | G1C100JA0036 | Coil | T |
| L12 | G3BRB0000013 | Coil | T |
| L13 | G3A1R2C00006 | Coil | T |
| L15 | G1C220JA0036 | Coil | T |
| L21 | G1C100JA0036 | Coil | T |
| L22 | G1C220JA0036 | Coil | T |
| L23 | ELJFCR27MF | Coil | T |
| L24 | ELJFCR27MF | Coil | T |
| L29 | ELJFCR27MF | Coil | T |
| L30 | ELJFCR27MF | Coil | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| L601 | G1C101JA0036 | Coil | T |
| L602 | G1C101JA0036 | Coil | T |
| L731 | G1C101Z00010 | Coil | T |
| L732 | G1C101Z00010 | Coil | T |
| L771 | G0C931K00001 | Coil | T |
| L772 | G1C221JA0036 | Coil | T |
| L801 | G1C330JA0036 | Coil | T |
| L802 | G1C100JA0036 | Coil | T |
| L803 | G1C100JA0036 | Coil | T |
| L804 | G1C100JA0036 | Coil | T |
| L805 | G1C100JA0036 | Coil | T |
| L806 | G1C100JA0036 | Coil | T |
| | | | |
| | | | |
| Filters | | | |
| FL2 | J0JCC0000011 | Filter | T |
| FL3 | J0JCC0000011 | Filter | T |
| FL4 | J0JCC0000011 | Filter | T |
| FL5 | J0JCC0000011 | Filter | T |
| FL7 | J0JCC0000011 | Filter | T |
| FL8 | J0B1075A0147 | Filter | T |
| FL14 | J0B5504A0026 | Filter | T |
| FL201 | J0JCC0000011 | Filter | T |
| FL301 | J0JCC0000011 | Filter | T |
| FL601 | J0JCC0000011 | Filter | T |
| FL771 | J0JCC0000159 | Filter | T |
| FL801 | J0JCC0000011 | Filter | T |
| FL802 | J0JHC0000026 | Filter | T |
| SFL1 | J0C3805A0002 | Filter | T |
| | | | |
| | | | |
| SWITCH | | | |
| SW601 | K0F111B00044 | Switch | T |
| | | | |
| | | | |
| CRYSTALs | | | |
| X601 | H2B168500002 | Crystal | T |
| X801 | H0D177500001 | Crystal | T |
| X802 | H2C503300001 | Crystal | T |
| XL1 | H0D213500002 | Crystal Oscillator | T |
| XL2 | H2A500300010 | Crystal Oscillator | T |
| | | | |
| | | | |
| Network Resistors | | | |
| RA10 | D1HB1024A031 | Network Resistor | T |
| RA16 | D1HB1024A031 | Network Resistor | T |
| RA601 | D1H81024A043 | Network Resistor | T |
| RA602 | D1H84724A043 | Network Resistor | T |
| RA603 | D1H84724A043 | Network Resistor | T |
| RA604 | D1H81024A043 | Network Resistor | T |
| RA605 | D1H84724A043 | Network Resistor | T |
| RA606 | D1H81024A043 | Network Resistor | T |
| RA607 | D1H81024A043 | Network Resistor | T |
| RA609 | D1H81024A043 | Network Resistor | T |
| RA610 | D1H81024A043 | Network Resistor | T |
| RA611 | D1H81024A043 | Network Resistor | T |
| RA612 | D1H84724A043 | Network Resistor | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| RA613 | D1H81024A043 | Network Resistor | T |
| RA614 | D1H81024A043 | Network Resistor | T |
| RA615 | D1H84724A043 | Network Resistor | T |
| RA616 | D1H81024A043 | Network Resistor | T |
| RA801 | D1HB1024A031 | Network Resistor | T |
| | | | |
| | | | |
| Volumes | | | |
| VR1 | EVM3YSX50B53 | Volume | T |
| VR2 | EVM3YSX50B54 | Volume | T |
| VR3 | EVM3YSX50B14 | Volume | T |
| VR4 | EVM3YSX50B53 | Volume | T |
| VR651 | EVM3YSX50BE4 | Volume | T |
| | | | |
| | | | |
| | | | |
| Accessories | | | |
| PRINTINGs | | | |
| | YFM284C549ZA | Operating Instructions | T |
| | | | |
| | | | |
| Components | | | |
| | EUR7641040 | Remote Control Unit (including a battery) | T |
| | CR2025/1F | Lithium Battery | T |
| | | | |
| | | | |
| Installation Hardware (For Installation) | | | |
| | ZZFPTUN153U | Installation Kit (Tapping Screw, Velcro Tape) | T |
| | | | |
| | | | |
| Installation Hardware (For Wiring) | | | |
| | YEAJ012884 | Power Connector | T |
| | YEAJ071812 | Head Unit/Expansion Module Connecting Cable (3m) (for Expansion Module) | T |
| | YEAJ071819 | RCA Cord (3m) (for video connector) | T |
| | YEAJ071820 | RCA Cord (3m) (for audio connector) | T |
| | YEAJ071821 | RCA Cord (3m) (for remote control connector) | T |
| | | | |
| | | | |
| | | | |
| Mechanical Parts | | | |
| MISCELLANEOUS | | | |
| AT1 | K4CD01000015 | Terminal | T |
| AT2 | K4CD01000015 | Terminal | T |
| AT3 | K4CD01000015 | Terminal | T |
| AT4 | K4CD01000015 | Terminal | T |
| JK1 | K2HC303B0001 | Jack | T |
| JK2 | K2HC303B0001 | Jack | T |
| JK3 | K2HC303B0001 | Jack | T |
| JK4 | K2HC303B0001 | Jack | T |
| JK201 | K2HA303B0034 | Jack | T |
| JK801 | K2HA102A0028 | Jack | T |
| 1 | YFA034C062ZA | Upper Cover | T |
| 2 | YFX214C431ZA | Bracket, Connector/ANT | T |
| 3 | AAPB9786A0 | Main PCB w/Component | T/RTL |
| 4 | YFX214C432ZA | Bracket, CN606 | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| 5 | YFR044C013ZA | RCA Cap | T |
| 6 | YFA054C051ZA | Under Cover | T |
| | | | |
| 11 | XTB3+6FFZ | Tapping Screw | T |
| 12 | YEJT034C001N | Screw | T |
| | | | |

# 9. EXPLODED VIEW (CY-TUP133W)



# 10. REPLACEMENT PARTS LIST (CY-TUN133W)

**Notes :**

**1. Be sure to make your orders of replacement parts according to this list.**

**2. Important safety notice: Components, identified by mark have special characteristics important for safety. When replacing any of**

**these components, use only manufacturer's specified parts.**

3. **Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.**
4. **The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**

    **- Order intake period is basically six months after the first shipment.**

5. **“T” marks in remarks colum are indicated supply parts of PTW.**

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| [E9786B] Main Block | | | |
| IC's AND TRANSISTORs | | | |
| IC1 | AN5186FB-V | IC | T |
| IC9 | C1EB00000101 | IC | T |
| IC12 | C1AA00000751 | IC | T |
| IC201 | C0ABBA000063 | IC | T |
| IC601 | C2BBYY000199 | IC | T |
| IC602 | AN8065S-E1V | IC | T |
| IC651 | C1AB00000393 | IC | T |
| IC652 | C0JBAA000344 | IC | T |
| IC705 | C0CBADC00084 | IC | T |
| IC721 | C0CBACG00005 | IC | T |
| IC731 | C0DBAJG00002 | IC | T |
| IC801 | C5ZBZ0000019 | IC | T |
| IC802 | C1AB00000163 | IC | T |
| IC803 | C1AB00001852 | IC | T |
| PAC1 | J3AAAAB00004 | Tuner | T |
| Q1 | B1GDCFJJ0002 | Transistor | T |
| Q2 | B1GDCFJJ0002 | Transistor | T |
| Q3 | B1GDCFJJ0002 | Transistor | T |
| Q4 | B1GDCFJJ0002 | Transistor | T |
| Q5 | B1ABBD000002 | Transistor | T |
| Q8 | 2SD0601AHR | Transistor | T |
| Q15 | 2SD0601AHR | Transistor | T |
| Q17 | B1GBCFJJ0002 | Transistor | T |
| Q201 | B1GDCFLL0010 | Transistor | T |
| Q202 | B1GDCFNN0002 | Transistor | T |
| Q204 | XN0F26100L | Transistor | T |
| Q601 | B1GDCFNN0002 | Transistor | T |
| Q751 | B1BDEL000001 | Transistor | T |
| Q752 | B1GDJCEJ0002 | Transistor | T |
| Q761 | B1BBAC000007 | Transistor | T |
| Q801 | B1ABCF000052 | Transistor | T |
| Q802 | 2SB0709AWL | Transistor | T |
| Q803 | 2SD0601AHR | Transistor | T |
| Q804 | 2SB0709AWL | Transistor | T |
| Q805 | 2SD0601AHR | Transistor | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| Q806 | 2SD0601AHR | Transistor | T |
| Q807 | B1GBHBEA0004 | Transistor | T |
| Q808 | B1GDCFNN0002 | Transistor | T |
| Q809 | B1GBCFNN0004 | Transistor | T |
| | | | |
| | | | |
| DIODEs | | | |
| D2 | B0DCBF000003 | Diode | T |
| D3 | B0DCBF000003 | Diode | T |
| D4 | B0DCBF000003 | Diode | T |
| D5 | B0DCBF000003 | Diode | T |
| D6 | MA3X028TAL | Diode | T |
| D7 | MA3X152E0L | Diode | T |
| D12 | B0JCRC000002 | Diode | T |
| D16 | B0ECKL000001 | Diode | T |
| D201 | B0ADCJ000007 | Diode | T |
| D203 | B0ADCJ000020 | Diode | T |
| D601 | B0ACCK000005 | Diode | T |
| D602 | B0ACCK000005 | Diode | T |
| D603 | B0ADCJ000007 | Diode | T |
| D604 | B0ACCK000005 | Diode | T |
| D615 | MAZ80510ML | Diode | T |
| D721 | B0ECKL000001 | Diode | T |
| D731 | B0JCQD000002 | Diode | T |
| D761 | B0BC5R700008 | Diode | T |
| D762 | B0ECKL000001 | Diode | T |
| D763 | B0ECKP000002 | Diode | T |
| D764 | B0ACCK000005 | Diode | T |
| D771 | B0BA04700003 | Diode | T |
| D801 | B0ACCK000005 | Diode | T |
| D803 | B0BC5R700008 | Diode | T |
| | | | |
| | | | |
| CAPACITORs | | | |
| C1 | F1J1H470A732 | Ceramic, 47PF 50WV | T |
| C2 | F1J1H470A732 | Ceramic, 47PF 50WV | T |
| C3 | F1J1H470A732 | Ceramic, 47PF 50WV | T |
| C4 | F1J1H470A732 | Ceramic, 47PF 50WV | T |
| C5 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C6 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C7 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C8 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C9 | F1J1H151A785 | Ceramic, 150PF 50WV | T |
| C10 | F1J1H151A785 | Ceramic, 150PF 50WV | T |
| C11 | F1J1H151A785 | Ceramic, 150PF 50WV | T |
| C12 | F1J1H151A785 | Ceramic, 150PF 50WV | T |
| C13 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C14 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C15 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C16 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C17 | F1J1C104A148 | Ceramic, 0.1 F 16WV | T |
| C18 | ECA1CM100I | Electrolytic, 10 F 16WV | T |
| C19 | F1J2A103A027 | Ceramic, 0.01 F 100WV | T |
| C20 | F1J1C105A173 | Ceramic, 1 F 16WV | T |
| C21 | F1J1H222A733 | Ceramic, 2200PF 50WV | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C22 | F1H1C473A071 | Ceramic, 0.047 μ F 16WV | T |
| C23 | F1H1E223A011 | Ceramic, 0.022 μ F 25WV | T |
| C25 | F1J1H100A732 | Ceramic, 10PF 50WV | T |
| C26 | F1H1H222A842 | Ceramic, 2200PF 50WV | T |
| C28 | D0GBR00JA008 | Chip, 0 Ω 1/10W | T |
| C29 | F1J1A2250004 | Ceramic, 2.2 μ F 10WV | T |
| C32 | F1J1C105A173 | Ceramic, 1 μ F 16WV | T |
| C34 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C35 | F1H1H150A841 | Ceramic, 15PF 50WV | T |
| C36 | ECA1AM101I | Electrolytic, 100 μ F 10WV | T |
| C37 | F1J1C104A148 | Ceramic, 0.1 μ F 16WV | T |
| C38 | ECA1AM101I | Electrolytic, 100 μ F 10WV | T |
| C39 | F1J1H181A732 | Ceramic, 180PF 50WV | T |
| C40 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C41 | F1J1C104A148 | Ceramic, 0.1 μ F 16WV | T |
| C42 | F1H1E223A011 | Ceramic, 0.022 μ F 25WV | T |
| C43 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C44 | ECA1HM2R2I | Electrolytic, 2.2 μ F 50WV | T |
| C45 | F1J1C104A148 | Ceramic, 0.1 μ F 16WV | T |
| C46 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C47 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C48 | ECA1CM220I | Electrolytic, 22 μ F 16WV | T |
| C50 | F1H1C473A071 | Ceramic, 0.047 μ F 16WV | T |
| C51 | F1H1E123A086 | Ceramic, 0.012 μ F 25WV | T |
| C52 | F1H1E223A011 | Ceramic, 0.022 μ F 25WV | T |
| C53 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C54 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C55 | F1H1H222A842 | Ceramic, 2200PF 50WV | T |
| C56 | F1J2A103A027 | Ceramic, 0.01 F 100WV | T |
| C57 | ECA1CM100I | Electrolytic, 10 F 16WV | T |
| C58 | F1J1H473A733 | Ceramic, 0.047 F 25WV | T |
| C59 | F1H1E223A011 | Ceramic, 0.022 F 25WV | T |
| C61 | D0GDR00JA017 | Chip, 0 1/8W | T |
| C94 | F1H1E223A011 | Ceramic, 0.022 F 25WV | T |
| C95 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C96 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C97 | F1J2A103A027 | Ceramic, 0.01 F 100WV | T |
| C98 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C99 | ECA0JM101I | Electrolytic, 100 F 6.3WV | T |
| C100 | F1H1H332A748 | Ceramic, 3300PF 50WV | T |
| C102 | F1J1H220A732 | Ceramic, 22PF 50WV | T |
| C107 | F1H1H152A842 | Ceramic, 1500PF 50WV | T |
| C108 | F1J1H330A732 | Ceramic, 33PF 50WV | T |
| C120 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C121 | F1H1H102A841 | Ceramic, 1000PF 50WV | T |
| C122 | F1H1H102A190 | Ceramic, 1000PF 50WV | T |
| C123 | F1H1E123A086 | Ceramic, 0.012 μ F 25WV | T |
| C124 | ECA1AM101I | Electrolytic, 100 μ F 10WV | T |
| C125 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C126 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C127 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C128 | ECA0JM101I | Electrolytic, 100 μ F 6.3WV | T |
| C162 | F1J0J4750003 | Ceramic, 4.7 μ F 6.3WV | T |
| C201 | ECEA1HKA010I | Electrolytic, 1 μ F 50WV | T |
| C202 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C204 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C205 | ECEA1HKA010I | Electrolytic, 1 μ F 50WV | T |
| C206 | F1J1H560A788 | Ceramic, 56PF 50WV | T |
| C207 | ECA1AM221I | Electrolytic, 220 μ F 10WV | T |
| C208 | F1J1C105A173 | Ceramic, 1 μ F 16WV | T |
| C209 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C305 | ECEA1HKA010I | Electrolytic, 1 μ F 50WV | T |
| C306 | F1J1H560A788 | Ceramic, 56PF 50WV | T |
| C309 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C601 | ECA0JM101I | Electrolytic, 100 μ F 6.3WV | T |
| C602 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C603 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C604 | ECA0JM221I | Electrolytic, 220 μ F 6.3WV | T |
| C605 | F1H1E103A086 | Ceramic, 0.01 " F 25WV | T |
| C606 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C607 | ECA0JM221I | Electrolytic, 220 F 6.3WV | T |
| C608 | F1H1A474A046 | Ceramic, 0.47 F 10WV | T |
| C609 | F1H1A224A046 | Ceramic, 0.22 F 10WV | T |
| C610 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C612 | ECA0JM221I | Electrolytic, 220 F 6.3WV | T |
| C613 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C614 | ECA0JM221I | Electrolytic, 220 F 6.3WV | T |
| C615 | F1J1H102A733 | Ceramic, 1000PF 50WV | T |
| C651 | F1H1E102A034 | Ceramic, 1000PF 25WV | T |
| C652 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C653 | F1J0J4750003 | Ceramic, 4.7 F 6.3WV | T |
| C654 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C655 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C721 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C722 | F2A1A181A835 | Electrolytic, 180 F 10WV | T |
| C723 | F2A1A181A835 | Electrolytic, 180 F 10WV | T |
| C724 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C732 | F1K1E475A099 | Ceramic, 4.7 μ F 25WV | T |
| C733 | F1H1H471A842 | Ceramic, 470PF 50WV | T |
| C734 | F1H1H222A842 | Ceramic, 2200PF 50WV | T |
| C735 | F1K1E475A099 | Ceramic, 4.7 μ F 25WV | T |
| C736 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C737 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C741 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C743 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C744 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C745 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C761 | F1H1C104A107 | Ceramic, 0.1 μ F 16WV | T |
| C762 | ECA1CM100I | Electrolytic, 10 μ F 16WV | T |
| C763 | F2A1C101A029 | Electrolytic, 100 μ F 16WV | T |
| C773 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C774 | F2H1C331A023 | Electrolytic, 330 μ F 16WV | T |
| C779 | F1J1C105A173 | Ceramic, 1 μ F 16WV | T |
| C801 | F1J2A103A027 | Ceramic, 0.01 μ F 100WV | T |
| C802 | ECA0JM101I | Electrolytic, 100 μ F 6.3WV | T |
| C803 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C804 | F1H1H270A841 | Ceramic, 27PF 50WV | T |
| C805 | F1H1H270A841 | Ceramic, 27PF 50WV | T |
| C806 | F1H1H3R0A839 | Ceramic, 3PF 50WV | T |
| C807 | F1J1H120A732 | Ceramic, 12PF 50WV | T |
| C808 | F1J1H120A732 | Ceramic, 12PF 50WV | T |
| C809 | F1H1E103A086 | Ceramic, 0.01 μ F 25WV | T |
| C810 | ECA0JM101I | Electrolytic, 100 F 6.3WV | T |
| C811 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C812 | F1H1E103A086 | Ceramic, 0.01 F 25WV | T |
| C813 | F1H0J1050010 | Ceramic, 1 F 6.3WV | T |
| C814 | ECA1CM100I | Electrolytic, 10 F 16WV | T |
| C815 | F1J0J4750003 | Ceramic, 4.7 F 6.3WV | T |
| C817 | ECA0JM471I | Electrolytic, 470 F 6.3WV | T |
| C818 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C820 | F1H1C104A107 | Ceramic, 0.1 F 16WV | T |
| C821 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C822 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C823 | ECA1CM220I | Electrolytic, 22 F 16WV | T |
| C824 | F1J0J4750003 | Ceramic, 4.7 F 6.3WV | T |
| C825 | F1J0J4750003 | Ceramic, 4.7 F 6.3WV | T |
| C826 | ECA1CM220I | Electrolytic, 22 F 16WV | T |
| C827 | ECA1AM101I | Electrolytic, 100 F 10WV | T |
| C828 | F1K0J1060017 | Ceramic, 10 F 6.3WV | T |
| C829 | F1H0J1050010 | Ceramic, 1 F 6.3WV | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| C830 | F1H1H331A900 | Ceramic, 330PF 50WV | T |
| C831 | F1H0J1050010 | Ceramic, 1 μF 6.3WV | T |
| C832 | ECA1AM101I | Electrolytic, 100 μF 10WV | T |
| C833 | F1H1E102A034 | Ceramic, 1000PF 25WV | T |
| C834 | F1H1H181A842 | Ceramic, 180PF 50WV | T |
| C835 | F1H1H153A842 | Ceramic, 0.015 μF 25WV | T |
| C836 | F1J0J4750003 | Ceramic, 4.7 μF 6.3WV | T |
| C837 | F1H0J1050010 | Ceramic, 1 μF 6.3WV | T |
| C840 | F1H1H560A841 | Ceramic, 56PF 50WV | T |
| C841 | F1H1H103A842 | Ceramic, 0.01 μF 50WV | T |
| C842 | F1H1H103A842 | Ceramic, 0.01 μF 50WV | T |
| C843 | ECA0JM221I | Electrolytic, 220 μF 6.3WV | T |
| C844 | F1J1C104A148 | Ceramic, 0.1 μF 16WV | T |
| C845 | F1J1C104A148 | Ceramic, 0.1 μF 16WV | T |
| C846 | ECA0JM221I | Electrolytic, 220 μF 6.3WV | T |
| C847 | ECA0JM221I | Electrolytic, 220 μF 6.3WV | T |
| C848 | F1H1H103A842 | Ceramic, 0.01 μF 50WV | T |
| | | | |
| | | | |
| RESISTORs | | | |
| R1 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R2 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R3 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R4 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R6 | D0GD391JA017 | Chip, 390 Ω 1/8W | T |
| R7 | D0GD103JA017 | Chip, 10k Ω 1/8W | T |
| R8 | D0GD102JA017 | Chip, 1k 1/8W | T |
| R9 | D0GD102JA017 | Chip, 1k 1/8W | T |
| R10 | D0GD102JA017 | Chip, 1k 1/8W | T |
| R11 | D0GD102JA017 | Chip, 1k 1/8W | T |
| R12 | D0GDR00JA017 | Chip, 0 1/8W | T |
| R13 | D0GD222JA017 | Chip, 2.2k 1/8W | T |
| R14 | D0GD103JA017 | Chip, 10k 1/8W | T |
| R15 | D0GD331JA017 | Chip, 330 1/8W | T |
| R16 | D0GD330JA017 | Chip, 33 1/8W | T |
| R17 | D0GD151JA017 | Chip, 150 1/8W | T |
| R19 | D0GBR00JA008 | Chip, 0 1/10W | T |
| R22 | D0GB332JA008 | Chip, 3.3k 1/10W | T |
| R23 | D0GD103JA017 | Chip, 10k 1/8W | T |
| R27 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R28 | D0GD181JA017 | Chip, 180 1/8W | T |
| R29 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R30 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R31 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R32 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R33 | D0GB471JA008 | Chip, 470 1/10W | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R34 | D0GB392JA008 | Chip, 3.9k Ω 1/10W | T |
| R35 | D0GB432JA008 | Chip, 4.3k Ω 1/10W | T |
| R36 | D0GD183JA017 | Chip, 18 Ω 1/8W | T |
| R37 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R38 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R40 | D0GB562JA008 | Chip, 5.6k Ω 1/10W | T |
| R41 | ERJ3RBD151V | Chip, 150 Ω 1/16W | T |
| R42 | ERJ3RBD181V | Chip, 180 Ω 1/16W | T |
| R43 | D0GB682JA008 | Chip, 6.8k Ω 1/10W | T |
| R44 | D0GBR00JA008 | Chip, 0 Ω 1/10W | T |
| R45 | D0GB222JA008 | Chip, 2.2k Ω 1/10W | T |
| R46 | D0GB393JA008 | Chip, 39k Ω 1/10W | T |
| R47 | D0GB103JA008 | Chip, 10k Ω 1/10W | T |
| R48 | D0GB272JA008 | Chip, 2.7k Ω 1/10W | T |
| R49 | D0GD333JA017 | Chip, 33k Ω 1/8W | T |
| R50 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R51 | D0GD101JA017 | Chip, 100 Ω 1/8W | T |
| R52 | D0GD563JA017 | Chip, 56k Ω 1/8W | T |
| R53 | D0GB473JA008 | Chip, 47k Ω 1/10W | T |
| R54 | D0GB563JA008 | Chip, 56k Ω 1/10W | T |
| R55 | D0GB472JA008 | Chip, 4.7k Ω 1/10W | T |
| R56 | D0GB272JA008 | Chip, 2.7k Ω 1/10W | T |
| R58 | D0GB562JA008 | Chip, 5.6k Ω 1/10W | T |
| R59 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R96 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R98 | D0GB680JA008 | Chip, 68 Ω 1/10W | T |
| R99 | D0GB101JA008 | Chip, 100 Ω 1/10W | T |
| R100 | D0GB223JA008 | Chip, 22k 1/10W | T |
| R101 | D0GB333JA008 | Chip, 33k 1/10W | T |
| R102 | D0GB123JA008 | Chip, 12k 1/10W | T |
| R103 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R104 | D0GB473JA008 | Chip, 47k 1/10W | T |
| R106 | D0GB101JA008 | Chip, 100 1/10W | T |
| R107 | D0GD472JA017 | Chip, 4.7k 1/8W | T |
| R108 | D0GD472JA017 | Chip, 4.7k 1/8W | T |
| R110 | D0GD202JA017 | Chip, 2k 1/8W | T |
| R114 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R115 | D0GB222JA008 | Chip, 2.2k 1/10W | T |
| R116 | D0GD392JA017 | Chip, 3.9k 1/8W | T |
| R148 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R201 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R202 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R209 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R210 | D0GB103JA008 | Chip, 10k 1/10W | T |
| R213 | D0GD104JA017 | Chip, 100k 1/8W | T |
| R214 | D0GD432JA017 | Chip, 4.3k 1/8W | T |
| R215 | D0GB273JA008 | Chip, 27k 1/10W | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R216 | D0GD561JA017 | Chip, 560 Ω 1/8W | T |
| R217 | D0GD473JA017 | Chip, 47k Ω 1/8W | T |
| R313 | D0GD104JA017 | Chip, 100k Ω 1/8W | T |
| R314 | D0GD432JA017 | Chip, 4.3k Ω 1/8W | T |
| R315 | D0GB273JA008 | Chip, 27k Ω 1/10W | T |
| R316 | D0GD561JA017 | Chip, 560 Ω 1/8W | T |
| R317 | D0GD473JA017 | Chip, 47k Ω 1/8W | T |
| R600 | D0GD473JA017 | Chip, 47k Ω 1/8W | T |
| R601 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R602 | D0GD101JA017 | Chip, 100 Ω 1/8W | T |
| R603 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R604 | D0GB473JA008 | Chip, 47k Ω 1/10W | T |
| R605 | D0GB473JA008 | Chip, 47k Ω 1/10W | T |
| R608 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R609 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R610 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R611 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R612 | D0GD101JA017 | Chip, 100 Ω 1/8W | T |
| R613 | D0GB103JA008 | Chip, 10k Ω 1/10W | T |
| R614 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R615 | D1BB2703A012 | 270k Ω 1/10W | T |
| R616 | D1BB1503A056 | 150k Ω 1/16W | T |
| R617 | D1BB3902A012 | 39k Ω 1/10W | T |
| R618 | ERJ3RBD433V | Chip, 43k Ω 1/16W | T |
| R619 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R622 | D0GD331JA017 | Chip, 330 Ω 1/8W | T |
| R623 | D0GB103JA008 | Chip, 10k Ω 1/10W | T |
| R624 | D0GD102JA017 | Chip, 1k 1/8W | T |
| R625 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R626 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R652 | D0GBR00JA008 | Chip, 0k 1/10W | T |
| R653 | D0GB473JA008 | Chip, 47k 1/10W | T |
| R721 | D0GN2R7JA005 | Chip, 2.7 1/2W | T |
| R731 | D1BD1201A030 | 1.2k 1/8W | T |
| R732 | D1BB7501A012 | 7.5k 1/10W | T |
| R741 | D0GDR00JA017 | Chip, 0 1/8W | T |
| R743 | D0YFR00J0001 | Chip, 0 1/8W | T |
| R744 | D0YFR00J0001 | Chip, 0 1/8W | T |
| R745 | D0GG150JA012 | Chip, 15 1/4W | T |
| R751 | D0GB473JA008 | Chip, 47k 1/10W | T |
| R752 | D0GN102JA005 | Chip, 1k 1/2W | T |
| R753 | D0GN102JA005 | Chip, 1k 1/2W | T |
| R754 | D0GN102JA005 | Chip, 1k 1/2W | T |
| R759 | D0YFR00J0001 | Chip, 0 1/8W | T |
| R760 | D0YFR00J0001 | Chip, 0 1/8W | T |
| R761 | D0GG100JA012 | Chip, 10 1/4W | T |
| R762 | D0GB103JA008 | Chip, 10k 1/10W | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R763 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R764 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R767 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R768 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R769 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R770 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R773 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R774 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R775 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R776 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R777 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R778 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R780 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R781 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R782 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R783 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R784 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R785 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R786 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R787 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R802 | D0GD223JA017 | Chip, 22k Ω 1/8W | T |
| R803 | D0GD223JA017 | Chip, 22k Ω 1/8W | T |
| R804 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R805 | D0GB101JA008 | Chip, 100 Ω 1/10W | T |
| R806 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R807 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R808 | D0GB912JA008 | Chip, 9.1k Ω 1/10W | T |
| R809 | D0GB102JA008 | Chip, 1k 1/10W | T |
| R810 | D0GB221JA008 | Chip, 220 1/10W | T |
| R811 | D0GB221JA008 | Chip, 220 1/10W | T |
| R812 | D0GB221JA008 | Chip, 220 1/10W | T |
| R813 | D0GB104JA008 | Chip, 100k 1/10W | T |
| R814 | D1BB8201A012 | 8.2k 1/10W | T |
| R815 | D1BB1002A012 | 10k 1/10W | T |
| R816 | D1BB2201A012 | 2.2k 1/10W | T |
| R817 | D0GB222JA008 | Chip, 2.2k 1/10W | T |
| R818 | D0GB101JA008 | Chip, 100 1/10W | T |
| R819 | D0GD391JA017 | Chip, 390 1/8W | T |
| R820 | D0GD391JA017 | Chip, 390 1/8W | T |
| R821 | D0GD680JA017 | Chip, 68 1/8W | T |
| R822 | D0GB100JA008 | 10 1/10W | T |
| R824 | D0GBR00JA008 | Chip, 0 1/10W | T |
| R825 | ERJ3RBD391V | Chip, 360 1/16W | T |
| R826 | ERJ3RBD182V | Chip, 1.8k 1/10W | T |
| R827 | D0GB302JA008 | Chip, 3k 1/10W | T |
| R828 | D0GB914JA008 | Chip, 910k 1/10W | T |
| R829 | D0GD914JA017 | Chip, 910k 1/8W | T |

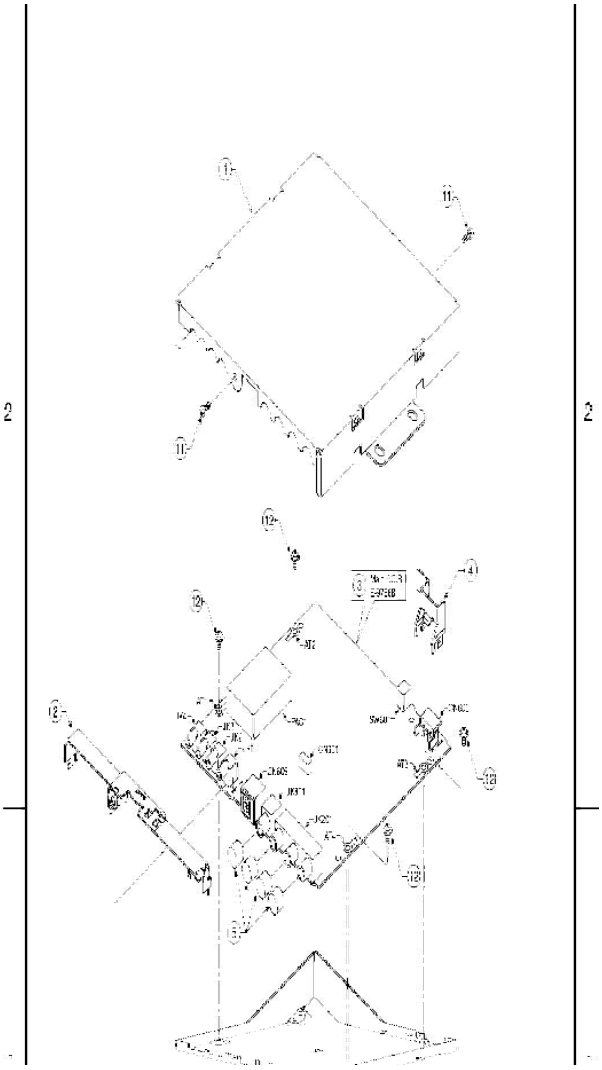
| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| R830 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R831 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R833 | D0GBR00JA008 | Chip, 0 Ω 1/10W | T |
| R834 | D0GB331JA008 | Chip, 330 Ω 1/10W | T |
| R835 | D0GB102JA008 | Chip, 1k Ω 1/10W | T |
| R836 | D0GB273JA008 | Chip, 27k Ω 1/10W | T |
| R837 | D0GB333JA008 | Chip, 33k Ω 1/10W | T |
| R838 | D0GB331JA008 | Chip, 330 Ω 1/10W | T |
| R839 | D0GB331JA008 | Chip, 330 Ω 1/10W | T |
| R841 | D0GD914JA017 | Chip, 910k Ω 1/8W | T |
| R855 | D0GD222JA017 | Chip, 2.2k Ω 1/8W | T |
| R856 | D0GD221JA017 | Chip, 220 Ω 1/8W | T |
| R857 | D0GD221JA017 | Chip, 220 Ω 1/8W | T |
| R858 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R859 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R860 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| R861 | D0GN102JA005 | Chip, 1k Ω 1/2W | T |
| R863 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R864 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R865 | D0GDR00JA017 | Chip, 0 Ω 1/8W | T |
| R866 | D0GD102JA017 | Chip, 1k Ω 1/8W | T |
| R867 | D0GB513JA008 | Chip, 51k Ω 1/10W | T |
| R868 | D0GB513JA008 | Chip, 51k Ω 1/10W | T |
| R869 | D0YFR00J0001 | Chip, 0 Ω 1/8W | T |
| | | | |
| | | | |
| CONNECTORs | | | |
| CN601 | K1KA06AA0231 | Connector, 6P | T |
| CN605 | K1AB113B0002 | Connector, 13P | T |
| CN606 | K1KA04B00270 | Connector, 4P | T |
| | | | |
| | | | |
| COILs | | | |
| FL6 | ELJFCR68MF | Coil | T |
| L2 | ELJFCR27MF | Coil | T |
| L3 | ELJFCR27MF | Coil | T |
| L4 | ELJFCR27MF | Coil | T |
| L5 | ELJFCR27MF | Coil | T |
| L6 | G1CR22JA0036 | Coil | T |
| L7 | G1C100JA0036 | Coil | T |
| L8 | G1C1R8JA0036 | Coil | T |
| L9 | G1C1R5JA0036 | Coil | T |
| L11 | G1C100JA0036 | Coil | T |
| L12 | G3BRB0000012 | Coil | T |
| L13 | G3A1R2C00006 | Coil | T |
| L14 | G1C220JA0036 | Coil | T |
| L15 | G1C220JA0036 | Coil | T |
| L21 | G1C100JA0036 | Coil | T |
| L22 | G1C220JA0036 | Coil | T |
| L23 | ELJFCR27MF | Coil | T |
| L24 | ELJFCR27MF | Coil | T |
| L29 | ELJFCR27MF | Coil | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| L30 | ELJFCR27MF | Coil | T |
| L601 | G1C101JA0036 | Coil | T |
| L602 | G1C101JA0036 | Coil | T |
| L731 | G1C101Z00010 | Coil | T |
| L732 | G1C101Z00010 | Coil | T |
| L771 | G0C931K00001 | Coil | T |
| L772 | G1C221JA0036 | Coil | T |
| L801 | G1C330JA0036 | Coil | T |
| L802 | G1C100JA0036 | Coil | T |
| L803 | G1C100JA0036 | Coil | T |
| L804 | G1C100JA0036 | Coil | T |
| L805 | G1C100JA0036 | Coil | T |
| L806 | G1C100JA0036 | Coil | T |
| L807 | ELJFC220JF | Coil | T |
| | | | |
| | | | |
| Filters | | | |
| FL2 | J0JCC0000011 | Filter | T |
| FL3 | J0JCC0000011 | Filter | T |
| FL4 | J0JCC0000011 | Filter | T |
| FL5 | J0JCC0000011 | Filter | T |
| FL7 | J0JCC0000011 | Filter | T |
| FL8 | J0B1075A0147 | Filter | T |
| FL14 | J0B4504A0033 | Filter | T |
| FL201 | J0JCC0000011 | Filter | T |
| FL301 | J0JCC0000011 | Filter | T |
| FL601 | J0JCC0000011 | Filter | T |
| FL771 | J0JCC0000159 | Filter | T |
| FL801 | J0JCC0000011 | Filter | T |
| FL802 | J0JHC0000026 | Filter | T |
| SFL1 | J0C4575A0005 | Filter | T |
| | | | |
| | | | |
| SWITCH | | | |
| SW601 | K0F111B00044 | Switch | T |
| | | | |
| | | | |
| CRYSTALs | | | |
| X601 | H2B168500002 | Crystal | T |
| X801 | H0D143500002 | Crystal | T |
| X802 | H2C503300001 | Crystal | T |
| XL1 | H0D305500002 | Crystal Oscillator | T |
| | | | |
| | | | |
| Network Resistors | | | |
| RA10 | D1HB1024A031 | Network Resistor | T |
| RA16 | D1HB1024A031 | Network Resistor | T |
| RA601 | D1H81024A043 | Network Resistor | T |
| RA602 | D1H84724A043 | Network Resistor | T |
| RA603 | D1H84724A043 | Network Resistor | T |
| RA604 | D1H81024A043 | Network Resistor | T |
| RA605 | D1H84724A043 | Network Resistor | T |
| RA606 | D1H81024A043 | Network Resistor | T |
| RA607 | D1H81024A043 | Network Resistor | T |
| RA609 | D1H81024A043 | Network Resistor | T |
| RA610 | D1H81024A043 | Network Resistor | T |
| RA611 | D1H81024A043 | Network Resistor | T |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| RA612 | D1H84724A043 | Network Resistor | T |
| RA613 | D1H81024A043 | Network Resistor | T |
| RA614 | D1H81024A043 | Network Resistor | T |
| RA615 | D1H84724A043 | Network Resistor | T |
| RA616 | D1H81024A043 | Network Resistor | T |
| RA801 | D1HB1024A031 | Network Resistor | T |
| | | | |
| | | | |
| Volumes | | | |
| VR1 | EVM3YSX50B53 | Volume | T |
| VR2 | EVM3YSX50B54 | Volume | T |
| VR3 | EVM3YSX50B14 | Volume | T |
| VR4 | EVM3YSX50B53 | Volume | T |
| VR651 | EVM3YSX50BE4 | Volume | T |
| | | | |
| | | | |
| | | | |
| Accessories | | | |
| PRINTINGs | | | |
| | YFM284C549ZA | Operating Instructions | T |
| | | | |
| | | | |
| Components | | | |
| | EUR7641040 | Remote Control Unit (including a battery) | T |
| | CR2025/1F | Lithium Battery | T |
| | | | |
| | | | |
| Installation Hardware (For Installation) | | | |
| | ZZFPTUN153U | Installation Kit (Tapping Screw, Velcro Tape) | T |
| | | | |
| | | | |
| Installation Hardware (For Wiring) | | | |
| | YEAJ012884 | Power Connector | T |
| | YEAJ071812 | Head Unit/Expansion Module Connecting Cable (3m) (for Expansion Module) | T |
| | YEAJ071819 | RCA Cord (3m) (for video connector) | T |
| | YEAJ071820 | RCA Cord (3m) (for audio connector) | T |
| | YEAJ071821 | RCA Cord (3m) (for remote control connector) | T |
| | | | |
| | | | |
| | | | |
| Mechanical Parts | | | |
| MISCELLANEOUS | | | |
| AT1 | K4CD01000015 | Terminal | T |
| AT2 | K4CD01000015 | Terminal | T |
| AT3 | K4CD01000015 | Terminal | T |
| AT4 | K4CD01000015 | Terminal | T |
| JK1 | K2HC303B0001 | Jack | T |
| JK2 | K2HC303B0001 | Jack | T |
| JK3 | K2HC303B0001 | Jack | T |
| JK4 | K2HC303B0001 | Jack | T |
| JK201 | K2HA303B0034 | Jack | T |
| JK801 | K2HA102A0028 | Jack | T |
| 1 | YFA034C059ZA | Upper Cover | T |
| 2 | YFX214C431ZA | Bracket, Connector/ANT | T |
| 3 | AAPB9786B0 | Main PCB w/Component | T/RTL |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| 4 | YFX214C432ZA | Bracket, CN606 | T |
| 5 | YFR044C013ZA | RCA Cap | T |
| 6 | YFA054C051ZA | Under Cover | T |
| | | | |
| 11 | XTB3+6FFZ | Tapping Screw | T |
| 12 | YEJT034C001N | Screw | T |
| | | | |

# 11. EXPLODED VIEW (CY-TUN133W)



# 12. WIRING DIAGRAM

## 12.1. Main Block (Top View)

## 12.2. Main Block (Bottom View)

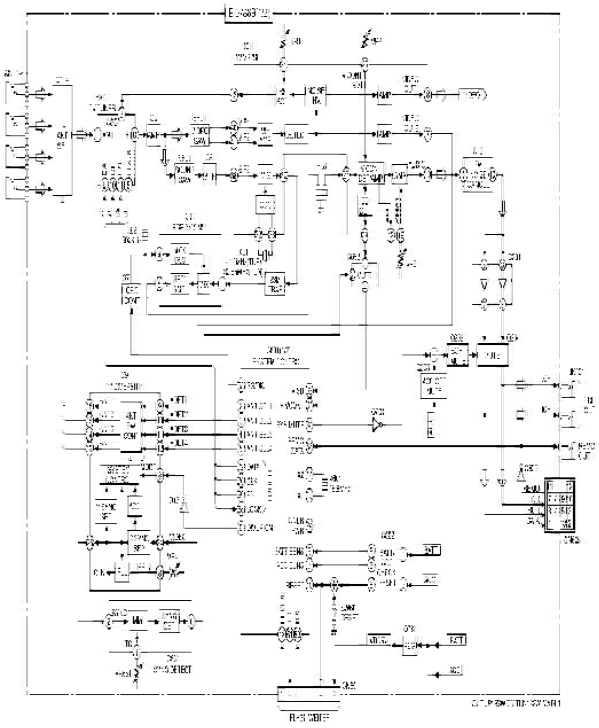
# 13. SCHEMATIC DIAGRAM

## 13.1. Main Block (CY-TUP133W)

## 13.2. Main Block (CY-TUN133W)

# 14. BLOCK DIAGRAM

## 14.1. Main Block-1



## 14.2. Main Block-2

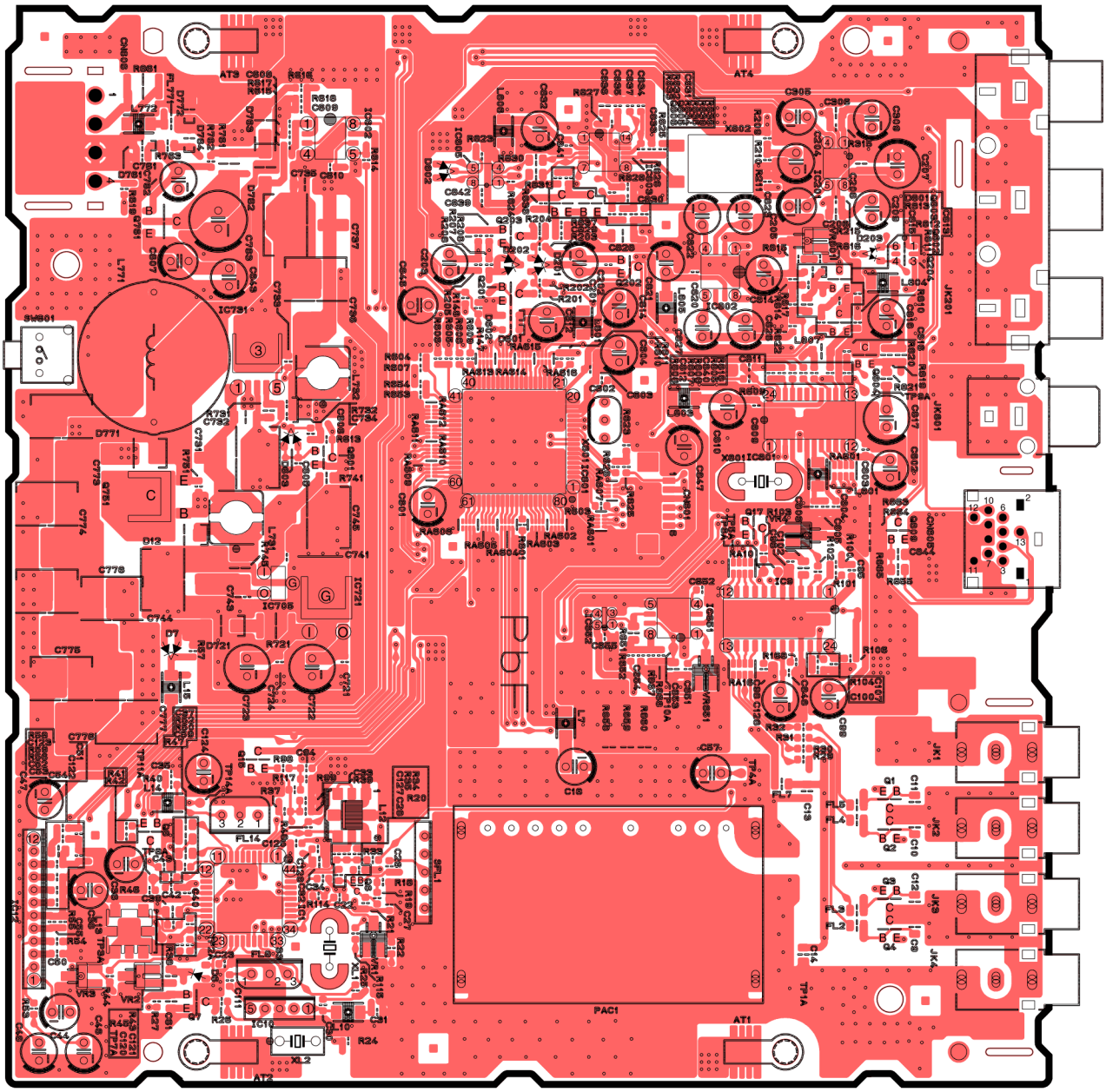
# 15. SCHEMATIC DIAGRAM for Printing with A4 Size

## 15.1. Main Block (CY-TUP133W) (Left Side)

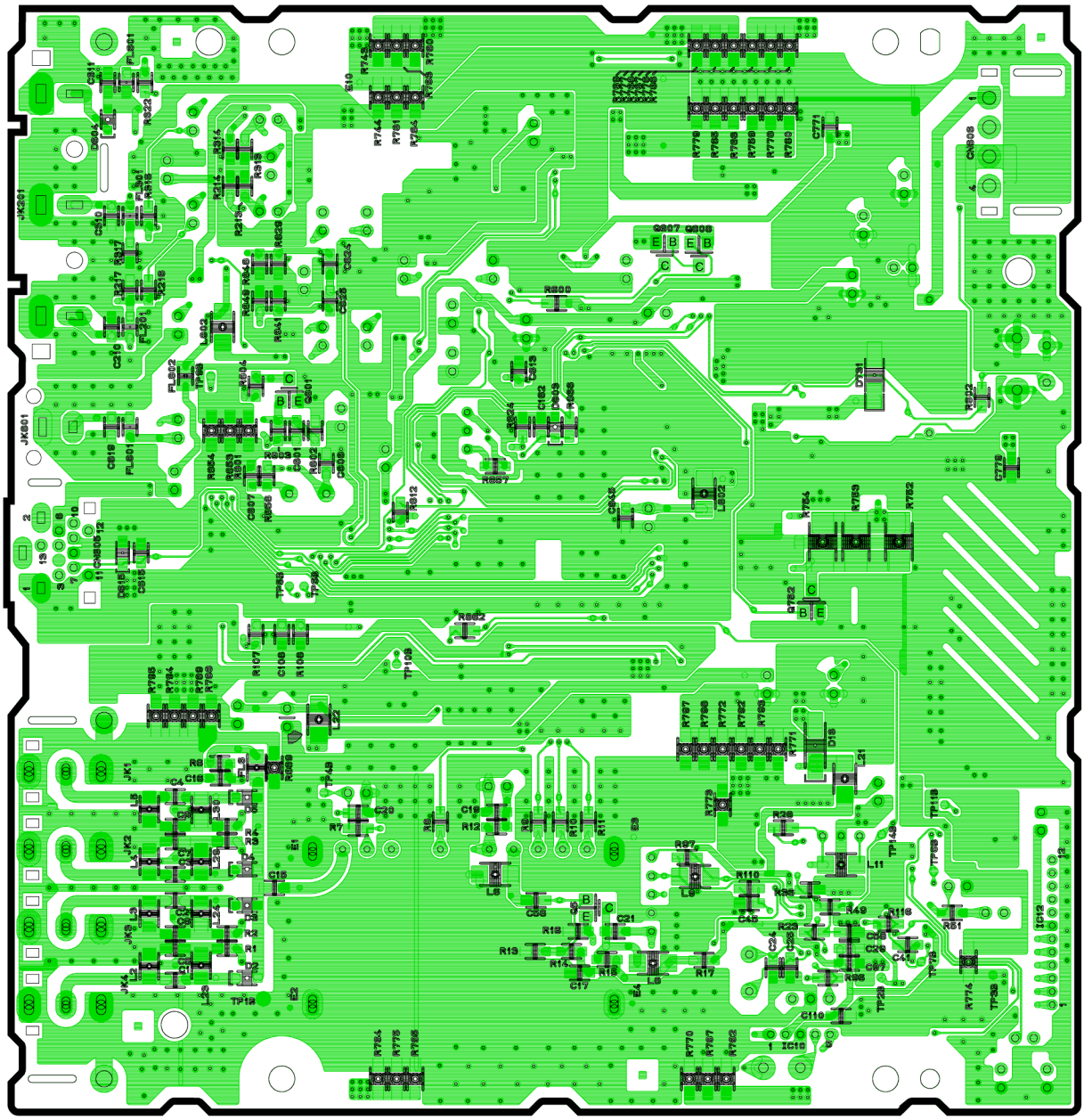
## 15.2. Main Block (CY-TUP133W) (Right Side)

## 15.3. Main Block (CY-TUN133W) (Left Side)

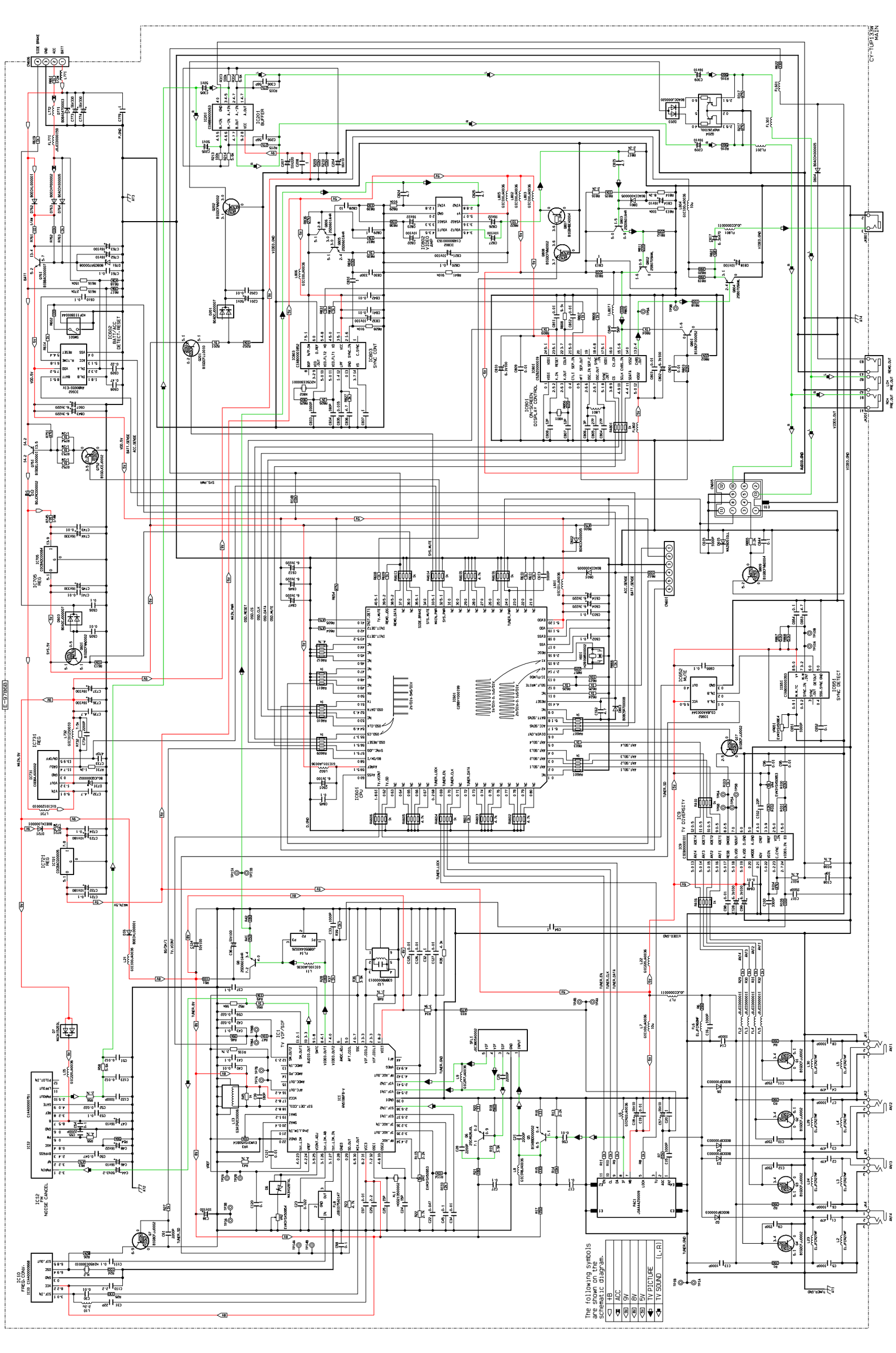
## 15.4. Main Block (CY-TUN133W) (Right Side)

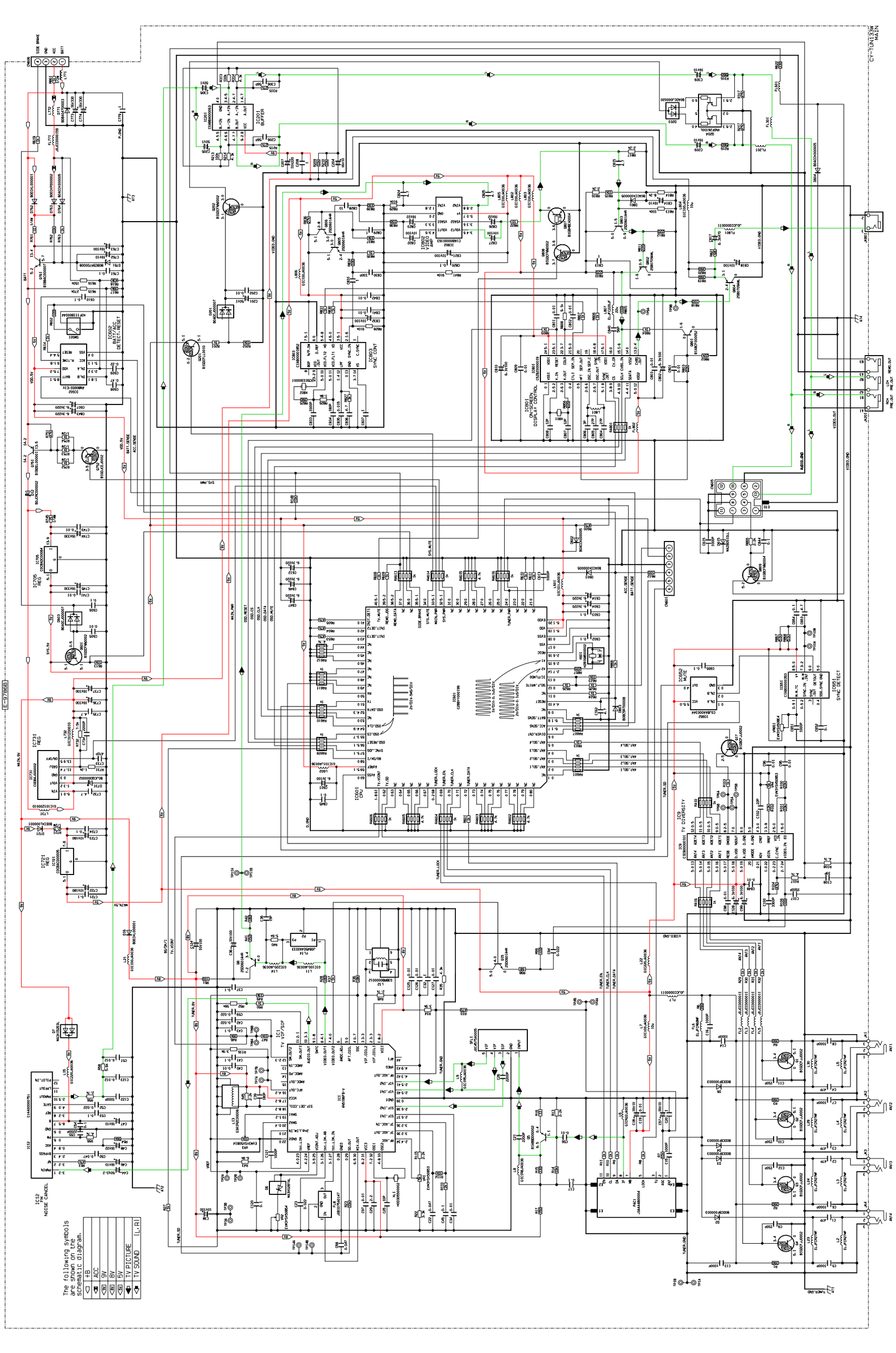


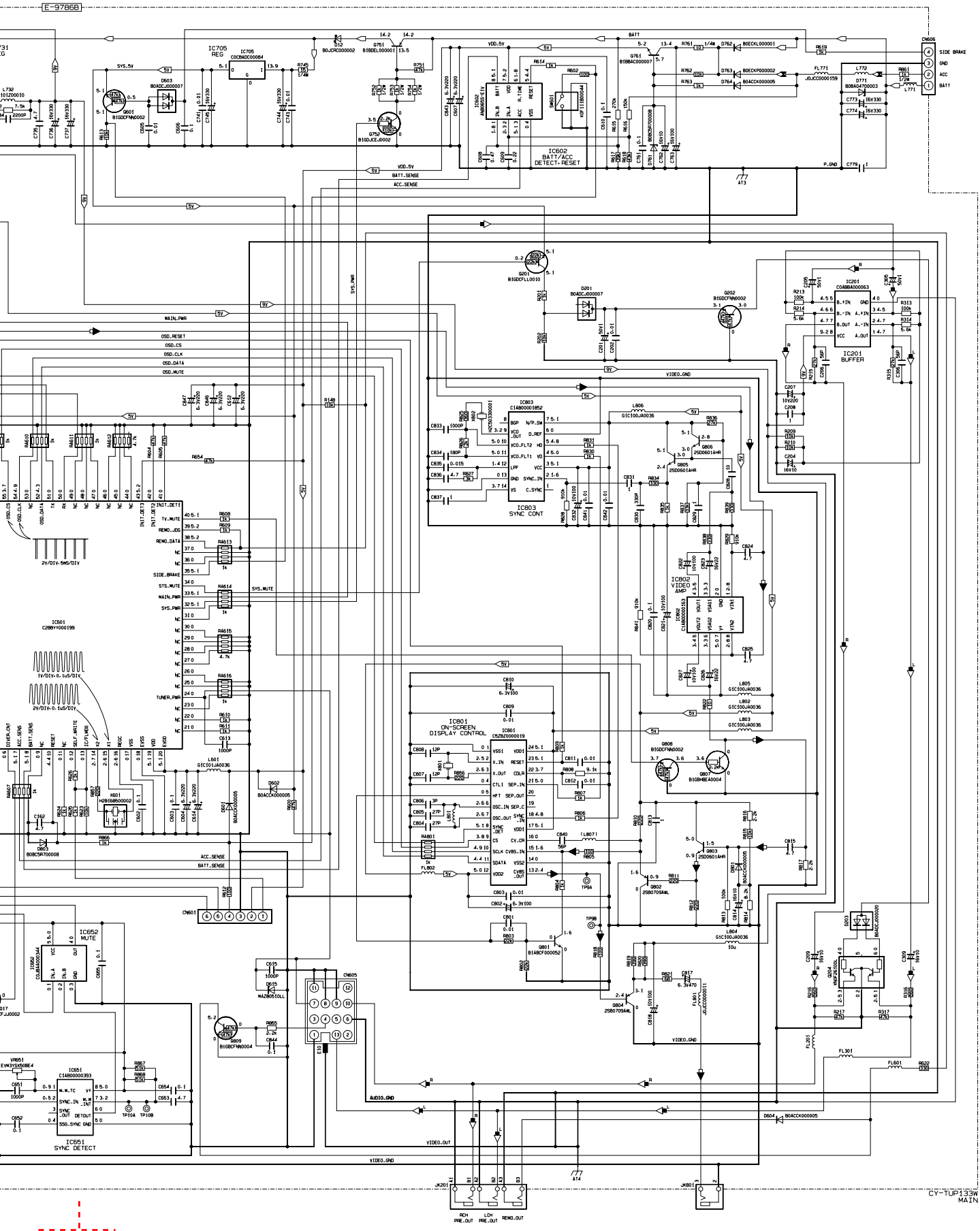
[E-9786B] [Top view]



[E-9786B] [Bottom view]

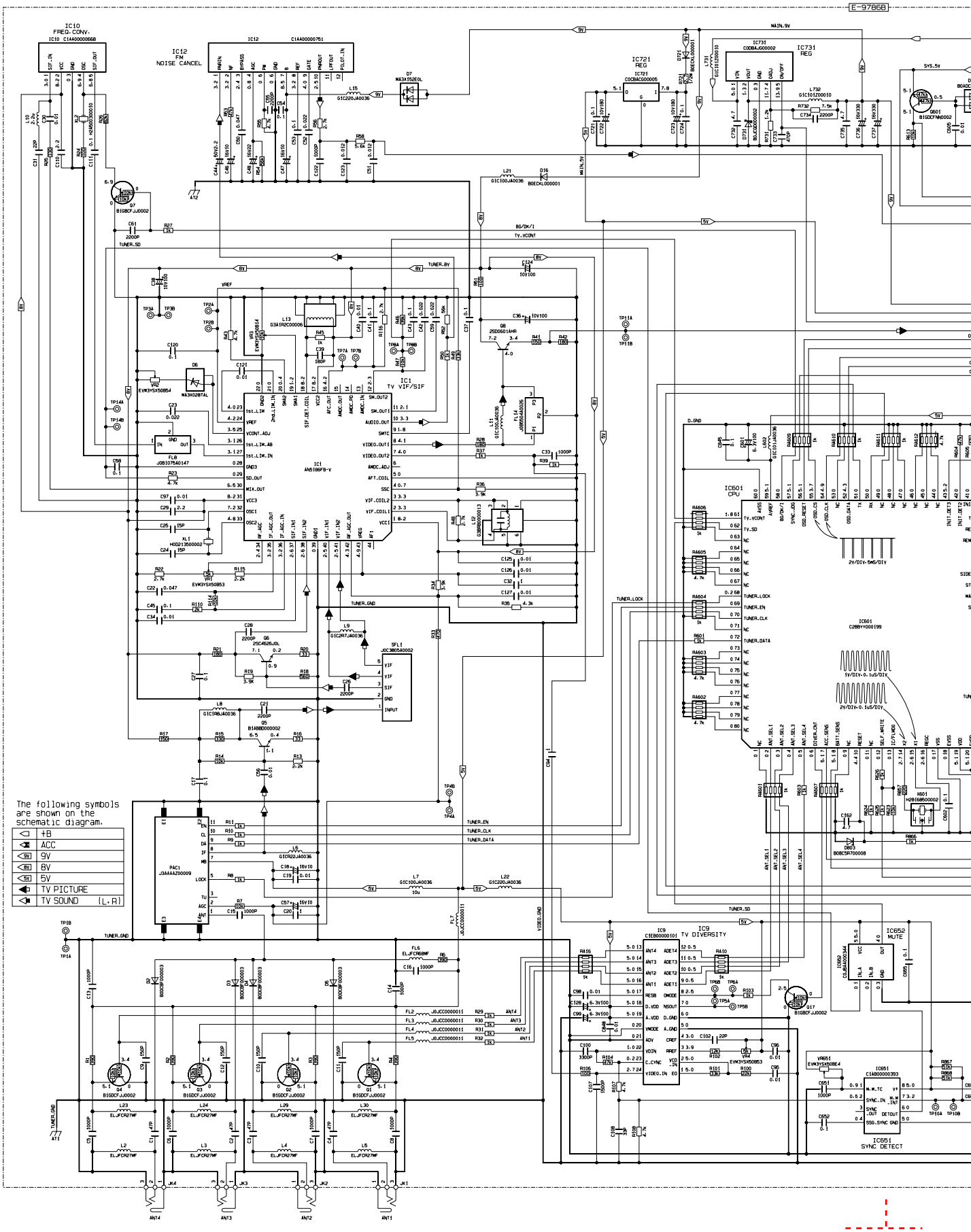

CY-TUP133K
MAIN
E-97865
The following symbols are shown on the schematic diagram.
HB
ACC
9V
8V
5V
TV PICTURE
TV SOUND
(L-R)

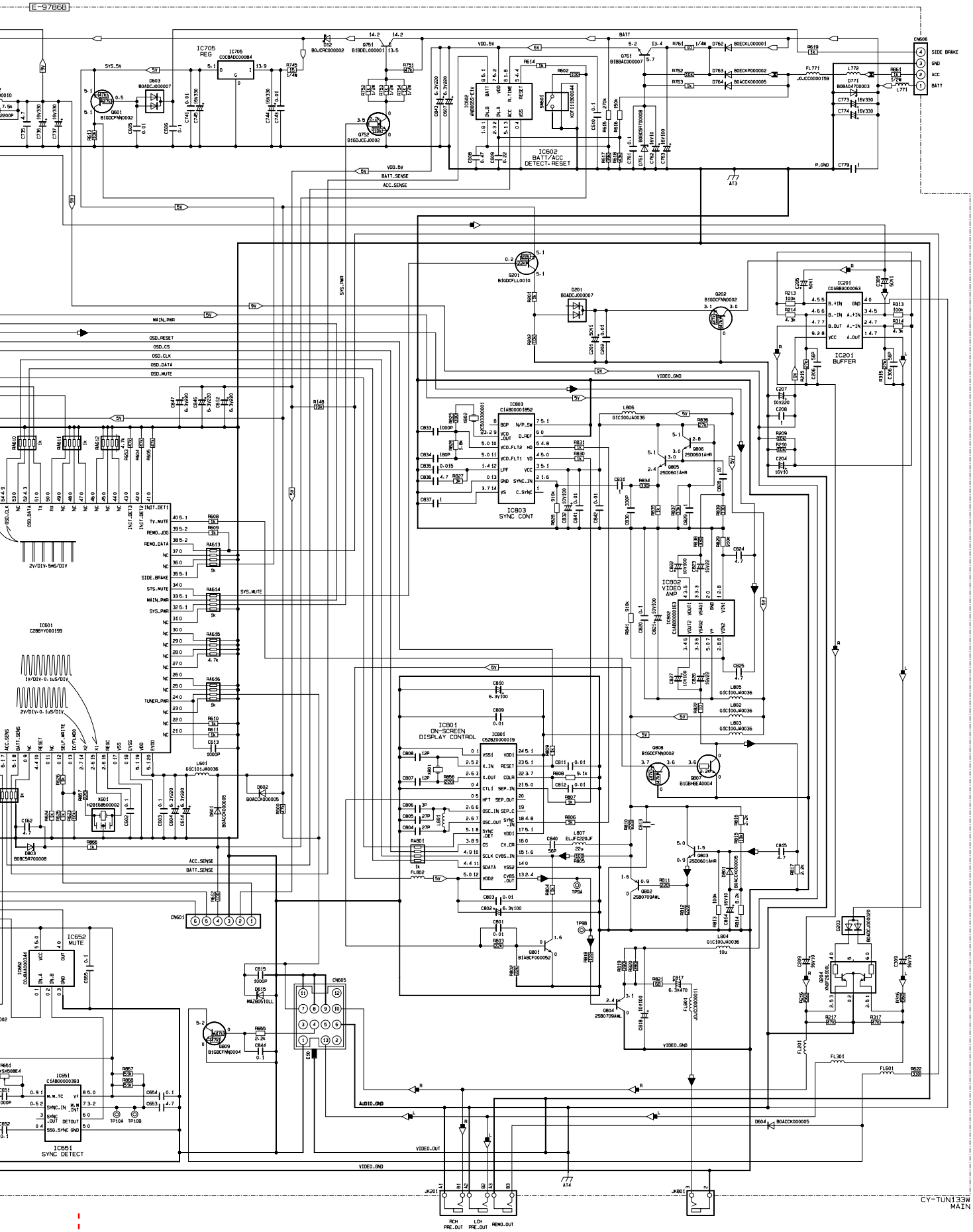

CY-TUN133K
MAIN
E-978663
The following symbols are shown on the schematic diagram.
HB
ACC
5V
5V
5V
TV PICTURE
TV SOUND
[L,R]


E-97868
IC705
REG
IC602
BATT/ACC
DETECT.RESET
IC803
SYNC CONT
IC802
VIDEO
AMP
IC801
ON-SCREEN
DISPLAY CONTROL
IC652
MUTE
IC651
SYNC DETECT
IC201
BUFFER
SIDE BRAKE
GND
ACC
BATT
MAIN.PWR
OSD.RESET
OSD.CS
OSD.CLK
OSD.DATA
OSD.MUTE
SYS.PWR
SYS.MUTE
VIDEO.GND
AUDIO.GND
ACC.SENSE
BATT.SENSE
VIDEO.OUT
RCH PRE.OUT
LCH PRE.OUT
REMO.OUT
CY-TUP133W
MAIN

# 13 SCHEMATIC DIAGRAM

## 13.1. Main Block (CY-TUP133W)




E-97868
IC705
REG
IC602
BATT/ACC
DETECT·RESET
IC803
SYNC CONT
IC801
ON-SCREEN
DISPLAY CONTROL
IC800
VIDEO
AMP
IC201
BUFFER
IC652
MUTE
IC651
SYNC DETECT
SYS.5V
MAIN_PWR
OSD_RESET
OSD_CS
OSD_CLK
OSD_DATA
OSD_MUTE
VDD_5V
BATT_SENSE
ACC_SENSE
VIDEO_GND
AUDIO_GND
SIDE BRAKE
GND
ACC
BATT
P_GND
RCH PRE_OUT
LCH PRE_OUT
REMO_OUT
CY-TUN133W
MAIN

# 13.2. Main Block (CY-TUN133W)